

ctggggtcga catgcta

317

<210> 182

<211> 507

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(507)

<223> n = A,T,C or G

<400> 182

tagcatgttg	agcccgagca	ctggctgtta	gcaaatccct	ctctcagctg	ctccctgttg	60
tttggtagct	caggattaca	gaggatccct	gtttcagggg	acaaaaagat	tttagctgcc	120
agcagagagc	accacataca	ttagaatggg	aaggactgcc	acctccttca	agaacagggg	180
tgagggtagt	ggtgaatggg	aatggangcc	tgcattccct	gatgcatttg	tgctctctca	240
aatcctgtct	tagtcttagg	aaaggaagta	aagtctcaag	gacggcttcg	aactgttttt	300
tgtgtctggg	ctcaacatgc	tatcccgagg	ccatggcgcc	cggaagcctg	cgagctgggg	360
cccaactcgc	cctatagtag	gtcgtattac	aattcactgg	ccgtcgtttt	acaaagtcgt	420
gactgggaaa	acccctgggt	tacccanctt	aatcgctttg	cagcacctcc	ccctttccca	480
gctggcgtaa	tanogaaaaa	gccccga				507

<210> 193

<211> 227

<212> DNA

<213> Homo sapien

<400> 193

gatttaagct	gcaacactgt	ggaggtagcc	ctggagcaag	gcagggcatg	atgcttctgc	60
aatccccaaa	tggagcctgg	tatttcagcc	aggaatctga	gcagagcccc	ctctaattgt	120
agcaatgata	agttattctc	tttgttcttc	aaccttccaa	tagccttgag	cttccagggg	180
agtgtcgtta	atcattacag	ccgtgtctcc	acagtgttgc	agcgtaa		227

<210> 194

<211> 225

<212> DNA

<213> Homo sapien

<400> 194

ttacgtctga	acactgtggg	gcagattaac	atcagacttt	tctctcaaca	tgactggggg	60
tactaaaaag	acaacaaatc	aatggcttca	aaagtctaac	gaataatttc	gatacttcaa	120
cttttataaa	ccctgacaaa	ctatcaatca	agcataaaga	cagatgaaga	acattctcag	180
attttgggca	atcagatatt	ttacctccac	agtgttgcag	cgtaa		225

<210> 195

<211> 597

<212> DNA

<213> Homo sapien

<400> 195

ggcccgagct	gcctgtctcc	cggccgccat	ggcccgggga	tttgttaggg	tctctatcca	60
ctgggaccca	taggttagtc	agagtattta	gaglttaggt	ccctttctgt	tcccagaatt	120
tgaagaagaa	ggagttaggt	gatagagctg	agagctcaga	tttgtctctg	aagcctgttc	180
aagatgtatg	tgtcagacc	ccaccactgg	ggcctgtggg	tgaggtccctg	ggcatctatt	240
tgatgaatt	gctgaagggg	agcaactatg	caaggaaggg	gaaccacatc	tggcaactgg	300
acaggggtca	cccttatccg	tgcctagctg	ttctttgtct	ctacctgggt	ttctctcata	360
tgtgaagggg	aggtaaagaa	aagtgccctg	tgttgtccga	gttttagaac	atctaccagt	420

```

aagtggggaa gtttcacaaa gaagcagctt tgttttgtgt attttcacct tcagttagaa      480
gaggaaaggt gtgagatgaa tgttagttga gtggaaaaga cgggtaagct tagtggatag      540
agacccataa gaatcaactag tggggccgoc ttgcaggctc accatattgg agagctc      597

```

<210> 186

<211> 597

<212> DNA

<213> Homo sapien

<400> 186

```

ggcccgaaagt tgcattgtcc cggcggccat ggcggggga ttogttaggg tctctatcca      60
ctacctaaaa aatcccaaac atataactga actcttcaca cccaattgga ccactccatc      120
accccgaggg cctacagatc ctcttttgat acataagaaa atttccccaa actacctaac      180
tatatcattt tgcagatttt gttttaccaa attttgatgg cttttctgag cttgtcagtg      240
tgaaccacta ttacgaacga tgggatatta aatgcacctc accytccagg tctagctggc      300
aacatcaagt gcagtaata ttcatatagt tttccactac taaggtggtt aaccacctta      360
gggtgcacat tgggtagcag atcttttgat ttgtttttat ttcccatag ggtctgttcc      420
aaggtcacac atacatgttg tgtgagcagc tagtcaactat cgcattgact ggagggtgat      480
aatagagggc tcttttgctg ttasagaact cttgtcccaag cctgtcaaaag tggatagaga      540
ccctaaccga taactagtgc ggcgccttgc aggtcgacca tatgggagag ctcccaa      597

```

<210> 187

<211> 324

<212> DNA

<213> Homo sapien

<400> 187

```

tcgttagggg tctctatcac ttgcaggtaa aatccaatcc tgtgtatata ttatagtctt      60
ccatattgtg tggttcaaga gaatgcagtt ccagaaagac tagccgagcc catccatgtc      120
ttccacttaa cctgtctttg ggttacacat cttaaccttt ctgttcaagt ttctctgtgt      180
agtttatagc atgagtattg ggaatatgcc ctgaaccctg acatgagatc tgggaaccac      240
aaacttactc aataagaatt tctcccatat ttatatgatg gaaaaatttc acatgcacag      300
aggagtggat agagacccta caga      324

```

<210> 188

<211> 178

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(178)

<223> n - A,T,C or G

<400> 188

```

gcggggggat tgggggtgat aactccatcat gccaaaatag aaggtataat ttcccaactt      60
gccttccaat ttacgaattt tcaatttgyt ctcccatatt gttagtgac acccaaccac      120
attgcccaga aacatgtatt acctaacatg cacatactct taaaactact catccctt      178

```

<210> 189

<211> 367

<212> DNA

<213> Homo sapien

<400> 189

```

tgacacattg tccagcatct gacacagctt tggctcttgg aaaatatgg ataaatgaaa      60
atgaatttct ttagcaagtg gtataagctg agaatatag tatcaatat cctcattcta      120
agacacattc agtgtccctg aaattagaat aggaattaca ataagtgtgt tcaattttct      180

```

aatagctgtt	attcaattga	tggtaggcct	taaaagtcas	agaaatgaga	gggcatgtga	240
aaaaaagctc	aacctcactg	atcattagaa	aacttccatt	caaaccccc	atgagatacc	300
atctcatacc	agtcagaatg	gctattatta	aaaagtcas	aaataacaga	tgtctggacaa	360
ggtgtca						367

<210> 190
 <211> 369
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)..(369)
 <223> n = A,T,C or G

gacaccttgt	ccagcatctg	scacagctaa	cagcctgagg	agatctttat	ttatttattt	60
agtttttact	ctggctaggg	ggtggttggc	taaaacattc	atttaacct	ttattcattt	120
aattgttccct	gcagggccta	tggatagagt	attgtccagc	actgctctgg	aagctaggag	180
ctgtggggatg	aacaagatag	gtacatctct	gttccacacg	aacttccact	ttagtctggg	240
aaacagatga	tatatacaaa	tatatcaatg	aattcaggtc	gttttaagta	cgaagaagaat	300
agaaagcag	agtcatgatt	tanaatgctg	gaaacagggg	ctattgcttg	agatattgaa	360
ggtgcccac						369

<210> 191
 <211> 369
 <212> DNA
 <213> Homo sapien

tgacaccttg	tccagcatct	gcacagggaa	aagaacctat	tatcagagtg	aacagggcaac	60
ctacagaaatg	ggagaaaatt	tttgcattct	atccatctga	caaagggcta	atatccagaa	120
tctacaaaga	acttatacaa	atttacaaga	aacaaacaaa	caaacacatc	ctcaaaaagt	180
gggtgaagga	tgtgaacaga	cacttctcaa	aagaagacat	ttatggggcc	aacaaaata	240
tgaaaaaaag	ctctcatctc	ctggctacta	gataaatgca	aatcaaaccc	acattgagat	300
accatctcat	tccagttaga	atggcaatca	ttaaaaagtc	aggaacacac	agatgctgga	360
caaggtgtc						369

<210> 192
 <211> 449
 <212> DNA
 <213> Homo sapien

tgacgcttgg	ccacttgaca	cttcatcttt	gcacagaaaa	acttctttac	agatttaatt	60
caagactggg	ctagtgcag	tctccagcc	attttttcat	tgtttccata	taagtgggat	120
tttaaaaata	tgtttcatca	gtttgaaatg	atttgggttg	ctaatonaca	caattggatc	180
gactgtttct	ctaaacacaa	ggaaaatgtg	tatctggcag	cctgtggaga	aacactaaac	240
attgattttt	ctttgctttt	taaggacttt	gttccagcta	catgtaatac	caagttctct	300
ttaaaggggg	aagatgttga	tcttccattg	ttttaccag	actgccaccc	tagtaaatat	360
tctttattta	tgtgtgttaa	aaattgccat	ccaaataaga	tgatttcata	tactggtatt	420
cctgctgagt	gtcaagtggc	caagcgtca				449

<210> 193
 <211> 372
 <212> DNA
 <213> Homo sapien

```

<400> 193
tgacgcttgg ccacttgaca ccagggatgt akcagttgaa tataatctctg caatigtaca      60
tattggcaat tcccatcaca acattctaga aagagacacac caggattgct aggcacataaa    120
agctgcaata aataactggt aattgcagta atcatctcag gccaatccaa tccagtttgg    180
ctcagaggtg cctttggctg agagaagagg tgagatataa tgtgtttct tgcacttct    240
tggaagaata actccacaat agtctgagga ctgatacaca acctatttgc catlaaagca    300
ccagagctctg ttaattccag tactgataag tgttgagat tagactccag tgtgtcaagt    360
ggccaagcgt ca                                     372

```

```

<210> 194
<211> 309
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (309)
<223> n = A,T,C or G

```

```

<400> 194
tgacgcttgg ccacttgaca ctatgtaga atccatctgt ggcctgatga agccctttat      60
ttaggtcttg tgttgytggg accttcata tccactaga gccaaacgcc accagatctg    120
cagaaacatt cagttctgan cactcgactg gcaggataac ttttctgtgt gtaactcttc    180
acctatacaa aaacaaactc tgcantctca cgttacaaaa aaacgtactg ctgtaaaaata    240
ttaagaaggg gtaaaggata ccactctata caaagttaac taccactagt gtcaagtggc    300
caagcgtca                                     309

```

```

<210> 195
<211> 312
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (312)
<223> n = A,T,C or G

```

```

<400> 195
tgacgcttgg ccacttgaca ccaaatctcg cacttcaccc tccagcacc tgatgaagta      60
ggactgcacc tatccacct tccagatga ggggaccaan gtacacatta ggaccgggat    120
ggagagccag atttgtccga tccagactc caagcactca ggtcactcc aggcagcggg    180
cttccagata aggtcaccaa catgaatggc tccgcaacc ggagtcagtc cgtgctgagt    240
taaggcaatg gtgacacgga tgcacgtgta acctgtaatg gttcatcgta agtctcaagt    300
ggccaagcgt ca                                     312

```

```

<210> 196
<211> 288
<212> DNA
<213> Homo sapien

```

```

<400> 196
tgtatcgagc tagtgytctc ctacagccatg cagaactgtg actcaattaa acctctttcc      60
tttatgaatt acccaatctc gggtagtgtc tttatagtag tgtgagaatg gactaatcac    120
agtacatttt acttagtaat aataataaac aaatatatta cttttttgtg tatttaactac    180
acctatattt ctattgttat tgtagtgtac acctctact tattaaaga atagggcccg    240
agycgggcag atcacagggg caggagatgg agccactac gtcgatac                    288

```

```

<210> 197

```

<211> 289
 <212> DNA
 <213> Homo sapien

<400> 197
 ttgggcaccc tcaataatcat gacagggtgat gtgataacca agnaggctac taagtgatta 60
 atgggtgggt aatgtatada gactaggtac actggacaga ggggtaatic atagccaaagg 120
 caggagagagc agaatggcga aacatttcat cacactactc aggatagcat gcagttttaa 180
 acctataagt agtttttttt tggatttttc cacttaatat tttcagactg caggttaacta 240
 aactgtggaa cacaggaaca tagataaggg gagaccacta cgtcgatcc 289

<210> 198
 <211> 288
 <212> DNA
 <213> Homo sapien

<400> 198
 gtatcgacgt agtgggtctcc caagcagtggt gaagaaaacg tgaaccaatt aasatgtatc 60
 agatacccca aagaaaggcg ctgtagatata gattccaaagt ggttcacaa ctcagatctt 120
 aasattcagg ctgtcaaaaga gatttgcata gagggtgctc tcaatgactt caggcacagt 180
 cggcaggsga ttgaagccct ggccattgtc aagatgaagg agcttttctg catgtatggc 240
 aagaaagacc ccaatgagcg ggaactcctg agaccactac gtcgatac 288

<210> 199
 <211> 1027
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1027)
 <223> n = A,T,C or G

<400> 199
 gcttttttggg aaaaaacncaa ntgggggaaa gggggnttna tngcaaggag ataaaggggg 60
 aanoaccaggg ttccccatt cgggggggtg taasagncg gccaggggat tglaaaggg 120
 ttcaataata ggggggaatgg gccngaagt tgcagggttc cngcccgcca tgnccggggg 180
 atttagtgac attacgacgs tggtaataaa gtggggccaa waatathtg tgaatgtgatt 240
 tttagaccag tgaacccatt gwacaggacc tcatitctty tgagatgata gccataatca 300
 gataaaagrt tagaagtytt tctgaacgtt aacagcatca ttaaatggag tggcatcacc 360
 aatttcaccc ttgtttagcc gatacccttc ccttgaaagg attcaattaa gtgaccaatc 420
 gtcatacgag aggggatggc atgggggattg atgatgatat cgggggtgat accctcacag 480
 gtgaaaggca tatctctttg tctatactga ataccacaag tacccttttg aocatgtcga 540
 ctagcaaat tgtctcaaat ctgtgtwate cctaacagag cgtaccotta ttttacaaaa 600
 tttatatact tctgattga gactaacat aacctgatcc acaatgcocg tctcgctwgt 660
 tctgagaaaa gtgctacagt ctctcttggg atagcgtoka ttggtgtctt ccaatttcac 720
 ttcatttttc aggcagggtg aactgttttg cctataataa cmtcatctcc tgatacmcga 780
 aacccckgga ctatcaaac catcatcctc cagcgttckt watgtymcta aatccctatt 840
 gggccgcctt gcaggtcaac atainggaaa acccccacc ccttnggagc ntaccttgaa 900
 tttccatai gtccntaaa tianctngnc ttanccctggc cntaacctat tccggtttta 960
 attgtttccg cccccntccc cccccttnna accgggaacc ttaattttta accnggggtt 1020
 cctatcc 1027

<210> 200
 <211> 207
 <212> DNA
 <213> Homo sapien

```

<480> 200
agtgacattt cgaagctggc catcttgaat cctaggggcat gaagttgcgc caaagttcag      60
cacttggttt agoctgatcc cctctggctta tccacaaagaa taggatggga taagaaagt      120
ggacatttaa ataagctata aattatattg cctctgtcta gacggagaca actgcacag      180
tatactaccc gvgtctgaat gtcccta                                207

```

```
<210> 201
<211> 209
<212> DNA
<213> Homo sapien
```

<400> 201						
tgggcaccctt	caatatcttat	taaaagcaca	aattactgaag	aacacaccaa	gactatcaat	60
ggagktacat	ctggagtoct	cgatatata	ggaaaaaatg	aagtgaacat	tacagaggtt	120
ttaattcttt	gggaactaa	atgtctgaag	agaaaagggt	gcctcttctt	tctggcttcc	180
tggtctatc	caggctcga	atgtcaata				209

<210> 202
 <211> 349
 <212> 388
 <213> Some septen

```
<220>
<221> misc_feature
<222> (1)...(349)
<223> s = A,T,C or G
```

c400> 202						
ntacgcgtgaa	acactgtgga	gcacactggtt	tttatcccg	gcaggtttatc	cagcaaacag	60
tcaatgaaca	cacccgagac	cgtggttatgy	taaccggtta	cagtaaatcgt	tccagtcgtc	120
tycgggaacc	cgacgagcgt	cactcggtac	agaccagcgt	cagccgggaag	agaaagcgcc	180
gcaggcgag	ctctggaact	cactccgtg	gtgagcagcc	caatgttttc	aaatcgaagt	240
tcaaacggga	tttggtttata	taccatcagc	tgaacttcac	acacatctcc	ttgaacccac	300
tggaaatata	tttttttgtt	cagctctctc	ccacagtgtt	gcagcgtaa		349

```
<210> 203
<211> 241
<212> DNA
<213> Homo sapien
```

```

<100> 203
tgctctctctt gccctaccac cccaaagccc acctgtcaat ctgaagtcaa tgacaaaatt      50
cagttctcaa cgcattatag tatagtctat ctgattcttt tcatctccag gacactttaa      120
acaaatgcta cccaccacc caccctaggg atttaggatt ctccacagac cagaatttat      190
ttctctcttg agtttcaggg tctctctggg ctctctcttc tcaatgggtg gtaaatggct      260
*
```

```
<210> 204
<211> 248
<212> DNA
<213> Homo sapien
```

400y 20x						
tggccattta	gaaccacatct	gcacacccawg	acmwccargx	cywgwackya	ggcgatttgg	60
agtactgtta	atgtctctgat	catgttagtt	acataaggtgt	gggtcagttta	caaaaattca	120
cagaaactaa	tactcaacggo	tatgtgttca	tgtctgtgttt	tatgtgtgttg	caatgtttca	180
cttaagtttt	tttaaaaaaa	agagatgatt	tccaaataag	aaagccgctgt	tgttaaggga	240
agaggagg						240

<210> 205
 <211> 505
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 * <222> (1)...(305)
 <223> n = A,T,C or G

```

<400> 205
tacgttgcaa caetgtggag ccattcctac aggtccctaa ttaaggaaaca agtgattatg      60
ctacetttgc acgggttaggg taccggggcc gttaaacatg tctcactggg caggcgggtgc      120
ctctaatact ggtgatgcta gaggtgatgt ttttggtaaa caggcgggggt aagattttgcc      180
gagttccttt taattttttt aacctttcct tatgagcatg cctgtgtttg gttgacagtg      240
ggggtaataa tgaattgttg gttgattgta gatattgggc tgttaattgt cagttcagtg      300
ttttaatatg acgcaggctt atgcggagga gaattgtttc atgttactta tactaacatt      360
agttcttcta tagggtgata gattggctca attgggtgtg aggagttcag ttatatgttt      420
gggatttttt aggtagtggg tgttgcactt gaacgcttct ttaattggtg gctgccttta      480
rgcctactat gggtagttaa tggct

```

<210> 206
 <211> 179
 <212> DNA
 <213> Homo sapien

```

<400> 206
tagactgact catgtccctt accaaagccc atgtacggag ctgagttcct aaagactgaa      60
gacagactat tctctggaga aaataaaaat ggaatttcta cttaaaaaaa aaaaaaatc      120
ggcggggcat ggtagcacac aactgtaato ccagctacta ggggacatga gtcagtcta      179

```

<210> 207
 <211> 176
 <212> DNA
 <213> Homo sapien

```

<400> 207
agaatgaact atgtccctta cccacacttc tctgtgctg ccgtgttctt aacaggtaac      60
agaatggtae tggtaagtgg cctgggggtt ggggaactct attatatggg atacaaattt      120
aggagttgga attgacacga tttagtgact gatgggatat gggtagttaa tggcta      176

```

<210> 208
 <211> 196
 <212> DNA
 <213> Homo sapien

```

<400> 208
agaatgaact atgtccctta tttaacaggg tctctagtgc tgtgaaaaaa aaaaatgctg      60
aacatggcat ataactata ttgttaagaa tactgtacaa tgactttatt gaatctgggt      120
agctgttaag catgaaggat gccagaagat ttaaggataa tgggttgtaa atggtctggg      180
gacatgagtc agtcta

```

<210> 209
 <211> 345
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(345)
 <223> n = A,T,C or G

<400> 209
 gacgcttggc caattgacac cttttatttt ttaaggatkc ttaagtcatt tangtnactt 60
 tgttaagtrtt tctgtgccc caataagaat gatagcttta aaaattalgc tggggttagca 120
 aagaaagatac ttctagcttt agaatgtgta ggtatagcda gaattcttgt gaggaaggggt 180
 gatttagagc aaatttctta ttctccttgc ctctctgtta acatggggat aataatagaa 240
 ctggcttgac aaggttggaa ttagtattac atggttaata catgtaaaat gtttagaatg 300
 gtgcccagta tctaggaagt acttgggcat ggggtgtaaa tggct 345

<210> 210
 <211> 178
 <212> DNA
 <213> Homo sapien

<400> 210
 gacgcttggc caattgacac tagagttagg tttggccac tttttctata aaggaccaga 60
 gagtaaatat ttccaggttt gtgggttgtg cagtctctct tgcactact cagctctgac 120
 attgtagcat agaatcagc catagacag acagaaatga atgggttgta aatggata 178

<210> 211
 <211> 434
 <212> DNA
 <213> Homo sapien

<400> 211
 tgggcacctt caatatctat ccagcgcac taaattcgct tttttcttga taaaaattt 60
 caccacttgc tgtttttgct catgtatacc aagtagcagt ggtgtgagge catgcttgtt 120
 ttttgattcy atatcagcac cgtataagag cagtgttttg gcaatbaatt tatcttcatt 180
 gttagacagca taggttagag tggatatcc atactcatct ggaatatttg gatcagtgcc 240
 atgttccagc aacattaaay cscattcacc ttctctggcat tgaacggcct ttgtcagagc 300
 tgtcctcttt ttgtgtgcaa ggaatttaag ttgacatcgt ctgtccagca cgaattttac 360
 tacttctgaa ttcacttgg cagagggcag atgtagagca gtctctcttt gattgtcct 420
 cttgttcaaa taagtgtccc tgaacatcac gga 434

<210> 212
 <211> 337
 <212> DNA
 <213> Homo sapien

<400> 212
 tccgttatgc caccacagaa accactgga gttacttatt aacatcaagg ctggaacctt 60
 ttgcoctnag tctatatctga ttcatgagca catggttatt atgactgca ttgaaaacat 120
 tgaacactg ggtttcttta ttatctgact gtgtcatgac aaggaaactt acaaactgca 180
 accagagaa actatttaag gtattcagaa acgtgaagcc agcaatttgt tgcacttctg 240
 gcatcttgaa aacaaatttg ccgttggaa ctttaatttgt tcttgaacag tcaagaaaaa 300
 cattattgag gaatttatt atcacagcat aacggaa 337

<210> 213
 <211> 715
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

<222> (1)...(715)
 <223> n = A,T,C or G

<400> 213
 tcgggtgatg cctcctcagg catcttccat ccactctcttc aagattagct gtcccaaatg 60
 tttttccttc tcttctttac tgataaatth ggactccttc ttgacaciga tgacagcttt 120
 agtatccttc ttgtcacctt gcagacttta aacataaaaa tactcattgg tttcaaaagg 180
 aaaaaagtat acattagcac tattaagctt ggacttgaaa catttctctat cttttattas 240
 atgtcggtta gctgaacaga attcatttta caatgcagag tgagaaaga agggagctat 300
 atgcatttga gaatgcagag attgtcaaat aaacatttta aatgctttct taagtgagc 360
 acatacagaa atacattag atattagaaa gtgtttttgc ttgtgtacta ctaattaggg 420
 aagcaacttg tatagttcct ctctaaaaat tgaagtagat tttaaaaaac catgtaattt 480
 aattgagctc tcagttcaga ttttaggaga attttaacag ggatttggtt ttgtctaaat 540
 tttgtcaatt tttttagtta atctgtataa ttttataaat gtcaaatctt atttagtccg 600
 ttttcactgc gctatgaaag aaatacccan gcacgggtta tttataaang gaagangtt 660
 aattgactc ccagttcaca ggcttgagga agnatcccc gaattcctta ttgcg 715

<210> 214
 <211> 345
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(345)
 <223> n = A,T,C or G

<400> 214
 ggtaangnag atactctggg gctccggcgg ccggagtcgg gggattcggg tgaagcctcc 60
 tcaggccccc ttgggctctg ttttcccaaa tggcagctcc totggacatg ccattccttc 120
 tccacactgc ctgattcttc atatgittgg tgtccctggt tttctgggtg taktcctga 180
 ctgctgttca gctgcactg tctgcaaaag cctgcctttt taatgcctc accattcctt 240
 cttttgtttc ttaaatatgg gaagtgaag tgcaacctga ggcggggcac agtggctcac 300
 gctgttaatt ccagcacttt gggagcctga ggaggcatca ccaga 345

<210> 215
 <211> 429
 <212> DNA
 <213> Homo sapien

<400> 215
 ggtgatgctt cctcaggcga agctcagggg ggacagaaac ctcccgctga gcagaagggc 60
 aaagctcgc ttgatcttga tttcagtac gaatacagac cgtgaagcgg gggcctcacg 120
 atcctcttga ccttttgggt ttttagcagg aggtgtcaga aaagttaccs cagggataac 180
 tggcttggtg cggccagcgg ttcattagcg cgtgcctttt tgatcctteg atgtcggctc 240
 ttcttatcat tgtgaagcag aattcaccas gcgttggtatt gttcaccac taatagggas 300
 cgtgagctgg gtttagacgg tegttagaaa ggttagtttt accctactga tgatgtgttg 360
 ttgcactggt aatctctctc agtacagag gaaccgcagg ttcaaacatt tgggtgtatgt 420
 gcttgctt 429

<210> 216
 <211> 593
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(593)

<223> n = A,T,C or G

<400> 216

tgacaactat	gtccngcatc	tgttcacagt	ttccacaaat	agccagcctt	tggtccacctc	60
tctgtcctga	ggtatacaag	tatatcagga	gggtgtatcc	ttctcttctc	ttcccccacc	120
aagagaacat	gcaggctctg	gaagctgtct	taggagcctt	tgggctcaga	atttcagagt	180
cttgggtacc	ttggatgtgg	tctggaagga	gaacacattg	ctctggataa	ggagtacagc	240
eggaggaggg	tcacagagcc	ctcagctcaa	gcccctgtgc	cttagctcaa	aagcagcttt	300
ggatgaggee	gcaggcttgg	taacataagt	aagcgtacac	aggtagagag	tgctggggagt	360
cagaattgca	cagtggtgtg	gagtagtacc	tcaatcaatg	agggcaaatc	aactgaaaga	420
agaagacoma	ttaatgaatt	gcttannggg	aaggatcaag	gctatcatgg	agctctttct	480
aggaagatta	ttgtttanaa	ttatgaagg	antagggcag	ggacggggcc	agaagtanaa	540
ganaacattg	cctatanccc	ttgtcttgca	cccagatgct	ggacaagggtg	tca	593

<210> 217

<211> 335

<212> DNA

<213> Homo sapien

<400> 217

tgacaacttg	tccagcatct	gaagtgagga	tgagcagctc	agggggagtg	tcttggattt	60
cttgggtctg	tgggtccagt	ggcaatgaat	tcttctgtga	agtggatgaa	gactacatcc	120
aggacaaatt	taattctaat	ggactcaatg	agcaggtccc	tcactatcga	caagctctag	180
acatgatctt	ggacctggag	cttgatgaag	aactggagaa	caacccccac	cagagtgaac	240
tgattgagca	ggcagccgag	atgctttatg	gattgatcca	cgcccgctac	atccttaaca	300
acgttggcat	cgcacagatg	ctggacaagg	tgtaa			335

<210> 218

<211> 248

<212> DNA

<213> Homo sapien

<400> 218

taactactgg	tcctgaagg	cttaggtaga	gaacaaatgt	gaatatttaa	tcnaagacta	60
tgtatgaatt	gggaactgaa	gtacagaggg	aagggtggcc	cttatcgcca	gaagttggta	120
gatgggtccc	cgtcatgaaa	tgttgtgtca	ctgcccgaac	tttgccgaat	tactgaatt	180
cgttagaatt	agtgcaaat	ctaacgttgt	tcattataaga	taatggtkcc	atgtttctag	240
taatttta						248

<210> 219

<211> 530

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(530)

<223> n = A,T,C or G

<400> 219

tgaggttggg	ccacttgaca	caagtagggg	ataaggtaca	agacccatna	ggtggcctgt	60
cagccttttg	ttactgttgc	ttccctgtca	ccagggcccc	ctctgtaggg	gtgtgctgtg	120
ctctgtggac	attggtgcat	tttccacat	accattctct	ttctgcttca	cagcagctct	180
gaggcggggg	cacacagggc	taccttgtaa	gatgagata	atgatgtctg	gcaactcac	240
cccccaacct	tctcactagt	tatangaaga	gccagcccta	naaccttcta	tctgtcccc	300
ttgccctatg	acctcatccc	tgttccatgc	actattctga	ttctgtgtga	acttggagac	360
agcctgggtt	atctctctca	ctccagcctc	tctccatacc	atggttgggg	ggtgctgttc	420
cacncaang	gtcaggtgtg	tctggggagt	ccnnaaanct	gcaggaggtt	tcnnaagcat	480

tcttaaaaaac cttctttgcoct aatcanatng tgtccagtg ccaccnctcn 530

<210> 220

<211> 531

<212> DNA

<213> Homo sapien

<400> 220

tgcagcttgg	ccacttgaca	ctaaatagca	tcttctaaag	gcctgattca	gagttgtgga	60
aaattctccc	agtgtcaggg	attgtcagga	acagggctgc	tctgtgtctc	actttacctg	120
ctgtgtttct	gctggaaaag	gagggaaag	gaatggctga	tttttaacct	atgtctccca	180
gtttttcata	ttctttttgg	atctcttctt	ctgacacatg	ttcccttttg	gtcttctctt	240
tcttgcctcg	agagcaggtc	tttttaaaac	tgagaagggg	gaatgagcaa	atgattaaag	300
aaaacacact	tcigaggccc	agagatcaaa	tattaggtaa	atactaaacc	gcttgcctgc	360
tggtgtccac	ttctctctct	ttcaatgct	ctatccctct	atccccccac	tattcatatg	420
gccttttatc	gcacagttat	cgggcctctc	atcaaaccttc	tcccctagcc	tactggggga	480
tatccatctg	ggctctgtct	tggtgtattg	gtgtcaagtg	gccagccttc	a	531

<210> 221

<211> 530

<212> DNA

<213> Homo sapien

<400> 221

attgacgctt	ggccacttga	caccgcgctg	cctgcacatac	tggggcaagg	gccttcaactg	60
cttctctgcc	accagctgcc	actgcacaca	gagatcagaa	atgctaccaa	ccaagactgt	120
tggtctctag	ctctctctag	gagaaagagc	agaagccttg	agtcagaaag	agagctaga	180
tcggtctagg	ccttggcagc	cagcttcccc	acctgtggca	ataagctcgt	gcattggctta	240
acaatagggg	cacctctctga	gaaacacatt	gttgggcaat	tcggcgtgtg	ttcatcagag	300
cataattaca	caaacctctga	tagtgcagcc	tactatccac	tattgctcct	acgtgcacaa	360
cctgaacagc	atgggactgt	actgaatact	ggaagcagct	ggtgatggta	cttattttgt	420
tatctaaaca	cagagaaggt	acagtaagaa	tatggtatca	taaaccttaca	gggaccgcga	480
tcctatatgc	agtctgttgt	gacaaaaatg	tgtcaagtg	ccaagcgtca		530

<210> 222

<211> 578

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(578)

<223> n = A,T,C or G

<400> 222

tgtatcgag	tagtggctct	ggggctacta	ggcggttgtg	tgtgtgtagt	acctggttca	60
ctgaaaggag	catctccctc	cccgcttgcg	cctgaagcag	ggggaggact	tgcaccagcc	120
aaggcagttg	tatgagtttt	agctggcgca	cttcagagcc	tctgagcccc	ctctcttcag	180
gagccttccc	cgattaaagg	agccagggtg	aggattcctt	cctccccag	acacacagaa	240
caaacaccca	ccccccctat	tctggccgcc	catatacctc	agaaagaaac	aaaaataaca	300
aataaaccaa	aaacaaaaaa	aaaagagag	gggaattgta	tatgtctgtc	catcctgttg	360
cttttagcctg	tcagctctct	aagggccagg	acctgttctt	cagaatgggtc	tgtccagcgc	420
cgactggggg	aagtafcgga	ggaggaagca	gagtcagcag	aagttgaacc	gtgggcccgg	480
cgactcttgg	gggctgggtg	tgtacttcga	gaccgcttcc	gctttttgtc	ttagatttac	540
gtttgtctct	tgaggtggga	naccactacn	tcnataca			578

<210> 223

<211> 578

<212> DNA

<213> Homo sapien

<400> 223

tgtatcgagc	tagtgggtctc	ctcttgcaaa	ggactggctg	gtgaatgggt	tccctgaatt	60
atggacttac	cctaacata	tcttctcctc	attaccagtt	gcaaatatt	agatgtgtt	120
gtcactcttc	catttgattc	ctagaagggt	agtcttagat	atgttacttt	aacctgtatg	180
ctgtagtgtc	ttgaatgcac	tttttgtttg	catttttgtt	tgcacacct	gtcaattata	240
gctgcttagg	tctggactgt	ctgggatasa	gctgttcaaa	tattcacccg	tccagccacc	300
ttcaagctca	attaagtcac	ctaaatgctt	ctttgttttg	ccagacttgc	tatgtcaatc	360
ctcaattttc	gggttcattt	tgggtgacct	aaatcttagg	gtgtgaactt	cttgcacatc	420
tgtaacatcc	attcccagc	agccacaact	tcacataata	ctttccagaa	gttcattgct	480
gaagcctttc	cttcacccag	gggagcaact	tgattttcta	caacttccct	cattcagagcc	540
accagagtat	gggatatgga	gaccaactacg	tcgatata			578

<210> 224

<211> 345

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(345)

<223> n = A,T,C or G

<400> 224

tgtatcgagc	taattgtctc	ccaaggtgct	gggattgcag	gcatgagcca	ccactcccag	60
gtggatcttc	ttctttatcc	ttacttcaat	aggtttctgt	tattcaagaa	gtgtagtggg	120
aaaagtcttt	tcaatctaca	tggttcaata	atgatgcctt	gggaataaaa	tgaatatctt	180
ctctttcctc	tttaggttga	ataaagaaac	agaaaaaata	gaacatactg	aaaataatct	240
aagttccaac	catagaagaa	ctgcagaaga	aatgaagaaa	gtgatgatga	tttagatttt	300
gatattgatt	tagaagccac	aggaggagac	cactacgttcg	atata		345

<210> 225

<211> 347

<212> DNA

<213> Homo sapien

<400> 225

tgtatcgagc	tagtgggtctc	caactgagg	tatgtgtgac	actagccac	aaagccttcc	60
aaagggagc	caggccacag	cagtttaag	ggaatctgtt	tataaattaa	tttccacctt	120
ctctaagtat	tcttctctaa	aactgatcaa	ggtgtgaagc	ctgtgtctct	tcccaactcc	180
cctttgacaa	cagccttcaa	ctaacacaag	aaaaggcatg	tctgaacatc	ttcctgagtc	240
tgactctgat	acgttgttct	gatgtctaaa	gagctccaga	acacccaaag	gacaatttcg	300
aatgctgtgt	tataacagac	tccaattggag	accactacgt	cgataca		347

<210> 226

<211> 281

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(281)

<223> n = A,T,C or G

<400> 226

agngngggga	ntgtatcgac	gtagtgtctc	cccaacagtc	tgtcattcag	tctgcagggtg	60
------------	------------	------------	------------	------------	-------------	----

tcagtggtttt	ggacaatgag	gcaccattgt	cacttattga	ctcttcagct	ctaaatgctg	120
aaatttaatt	ttgtatgac	aggtctggaa	ttcttgatga	ggttttacaa	agtattttgg	130
atcaatactc	caacaattca	gaagccaga	agagggatcc	tttcaatttt	gcagaaaccac	140
gagtggtatt	acacacacca	ggagaccact	acgtcgatac	a		150

<210> 227

<211> 3646

<212> DNA

<213> Homo sapien

<400> 227

gggaaacact	toctccacag	cttgtaagg	ttggagccct	ctccagtata	tgctgcagaa	60
ttttctcttc	ggtttctcag	aggatttctg	agtcggccct	aaaaaggcca	agctctggac	120
actctgcaaa	gtagaatggc	caagtttttg	agttgagttg	ccctttgag	ggtcactgaa	130
ctctcaaat	gttcaagctg	tgtygcgggt	tgttactgaa	actccggcc	tccttgatca	140
gtttccctac	attgatcaat	ggctgagttt	ggtcaggagc	accccttcog	tggtccact	150
catgcacat	tcataatitt	acctccaaag	tcctctgag	ccagacogtg	tttccgctc	160
gaactccagc	cggttcggct	cgcctctgac	tgctctcttc	tgaagaagag	gagagctctc	170
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cccccttctc	ggtttctgct	ccttcttctc	actctgagct	tgtataattg	gaaaacccat	210
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tgccctggga	gcccccgaaa	atagccatgc	ctttatattg	gcattttgtg	ctcaggccagc	290
ccagataggt	aaaaggaaa	tcacaaaact	agagggattt	tgctgggaatg	aatavcagtc	300
agattttaga	catagcctaa	aaagtttttg	acagtcacga	ggttgaaaaa	caaaaacaaag	310
cagctccaggc	agctgaaaaa	agccactgat	aaagcactct	ggagtatcag	agtttactgt	320
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ctgactccaa	ctccactatt	cctgttccatg	actgtccagga	actgttggaa	actactgaaa	340
ctggccgacc	tgatcttcna	aatgtgcccc	taggaaggt	ggatgccacc	atgttccacag	350
acagtagccg	cttctccag	aaaggaactc	gaagggccgg	tgccagctgtt	acctgggaga	360
cagatgtggt	gtgggtccag	gctttaccag	caaacacccc	agcacaacag	gtggaattga	370
tcgcccctac	tcaggctctc	cgatggggtc	aggtatttaa	cgttaacact	gcacagcaggt	380
acgcctttgc	tactgtgcac	gtacgtggag	ccctctacca	ggagcgtggg	ctactcacct	390
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ggtacccaga	aaagtgaatt	agcagctcaa	gatgcagttg	gaacttccag	caagccctca	410
aaatttctgc	ccacagcttc	ctttccacag	ccagatctgc	ctgacacccc	cgcatactca	420
acagaagaaq	aaactggccc	tcagaaactca	gagccaaata	aaatccaggaa	ggttggttga	430
ttcttctctg	ctctagaatc	ttcataccac	gaactctctg	gaaaacttta	atcagttccc	440
tcaggtctac	caacacattta	ggaggagcaa	agctacctca	gctctctccg	agccgtttta	450
agatccccc	tcttcaagc	ctaacagatc	aaatagctct	ccggtgcaca	acctgcgcac	460
aggttaattg	caaaaagggt	cctaaaccca	gcccaggcca	ccgtctccaa	gaaaactcac	470
caggagaaaa	gtgggaaatt	gactttacag	aaatcaaac	acacccgggt	gggtacaaat	480
acattctagt	actggtagac	acattctctg	gatggactga	agcatttgc	acaaaaaacg	490
aaactgtcaa	taaggtagtt	aaatttttac	taaatgaaat	catccctcga	catgggctgc	500
ctgttttgca	taggtctctg	taattggccg	gccttgcctc	tgtctatagt	ttagtccagtc	510
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caagtagaac	gcctgaactg	caacccaata	aaactcttta	caaaatcaat	cttagaatac	530
ggtgttaatt	ctgttaagct	acttctttta	gagtaagggt	caacccctta	caacccctta	540
tggtgtgggt	tcattacctt	tgaaatcatg	tatgggaggg	tgctgcctat	cttgcctaac	550
ctaaagagtg	cccaattggc	aaaaatatca	caaaactaat	tattacagta	cctaacagtt	560
cccaaacagg	tacaagatat	catctctgca	ctgttctcag	gaacccatcc	caatccaat	570

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cctgaacaga cagggccctg ccattcattc ccggccaggtg acctgttggt tgttaaaaag 2880
ttccagagag aaggactccc tccgtgttgg aagagacctc acacggtcat caccgtgcc 2940
acggctctga aggtggtgg cattcctggc tggattcctc acbcccgcac caaaaaggcc 3000
aacagagccc aactagaaa atgggtccccc agggctgggt cagggccctt aaaaactgac 3060
ctaagttggg tgaagcatt agattaattc tttttcttaa ttttgtaaaa caatgcatag 3120
ctctctgcaa acttatgtat ctttaagactc aatatacccc ccttggtata acfagggagt 3180
caatgatttg attcccccaa aaacacaagt ggggaatgta gtgtccaaac tggtttttac 3240
taacactgtt tttagactct ccttttcttt taactactca gcttggttcc acctgaattg 3300
actctccctt agctaaagag gccagatgga ctccatcttg gctctttcac tggccggcgc 3360
ttctccaagg acttaacttg tgcaggctga ctcccagcac ctccaagagt gcaatttaac 3420
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ccccctatcc ctccagcaac caccacccctg atcagtcagc agccatcagc accagggcaa 3540
ggccctccac cagcaaaaag attctgactc actgaagact tggatgacac ttagtatttt 3600
tggagataaa gttttttttt cttttttttt cttttttttt cgtgcc 3646

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<210> 228

<211> 419

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> {1}...(419)

<223> n = A,T,C or G

<400> 228

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taagagggtg caagatctaa gccacagcgt caatgcagaa cccagaaagt agcctggtaa 60
ggtgtttaag agtgggaatt tttggagtac agagttaggc acctaacctt agctgggggt 120
tggtagcggc cccagatggc ttacagaaag aagtgtcctg agatgagttt ttaagaatga 180
ataaggatag aaccaaagtga ggaactgactt ggcagtgggt atgggtgggt ggcataaaac 240
ttcgcctgta tggcaactgc acgtacagga atgaaagatg agactgtgtg gtgtttaatg 300
agctgcacat actaatttta tctgaaagt tttgaaagat taactaaaaa gtatttttta 360
gtaaagaaat aacctacat ttcagggtta ttgtttgttt aatatattga ggtgcccaa 419

```

<210> 229

<211> 148

<212> DNA

<213> Homo sapien

<400> 229

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aagagggtac ctgtatgtag ccatggtggc aatgagagac tgattactac ctgctggaga 60
ttgtttaagt gagttaatat attaaggata aaggagacca ggttttttga ctgttggaga 120
aggaattac agatattgaa ggtcccaa 148

```

<210> 230

<211> 237

<212> DNA

<213> Homo sapien

<400> 230

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taagagggtg cmaaaaaaaa aaatagaaac gaatgagtaa gacctactat ttgatagtac 60
aacagggtga ctatctgcaa tgaatactta attatacatt taacatagag tgaatttga 120
ttgtttgtaa ctogaaggat aaatgottga gaggatggat accccattct ccatgatgta 180
cttatttcaa attaatgoc tgtatcaaa cctccatat accctataaa tatgtacac 240
taotatgtac cctctta 257

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<210> 231

<211> 260

<212> DNA

<213> Homo sapien

<400> 231

taagaggggtg	cggttatctt	ctgatgggat	ttttttttct	ttctttttct	ttggaaaaaa	60
aaatgaaagc	cagaacaaan	ttattgaaca	aaagacaggy	actaaatctg	gagaatgaa	120
gtccctccac	ctgactgcca	tttcattcta	tctgaccttc	cagtctaggt	taggagata	180
gggggtggag	gggattaato	tgatacaggt	atatttaaag	caactctgca	tgtgtgcaag	240
aagtccatgy	tacccctcta					260

<210> 232

<211> 596

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(596)

<223> n = A,T,C or G

<400> 232

tgtctctctt	gccttaccaa	ccacaaatta	gaaccataat	gagatgtcac	ctcatacctg	60
gtgggnttaa	cattatttaa	aaaatcagaa	gtattganaa	gyatgtgaag	aaattagaa	120
atctgtgcac	tgttggtygg	aatgtaaaaa	aggtgtggcc	actatgggta	ccagcatgaa	180
ggttcctcaa	aaaaaatctt	ttttaactta	ctctatgato	gatcttgagg	ttgtttatgc	240
aaaagaaactg	aaatcaggat	tttgaggaaa	tattcacatt	ccacatccca	tttctgcttt	300
attcataata	ctcaagagat	ggaacaaacc	tcaatgtcca	tcacgggatg	aatggatcaa	360
ccacagtgtg	tatatgcata	caatggaata	ttatttagtc	tttaaaaga	aaaattctat	420
catatactac	aaottanact	aaacttgagg	acacastgct	nagtgaata	agcacaggaa	480
ggacgaatac	tgcattatct	ccttatatga	agtatctaaa	gtggtcaaac	tcttanagca	540
naaaataaaa	atgggtgggt	gccanacagt	tggttaggcn	agaaganaaa	cctant	596

<210> 233

<211> 96

<212> DNA

<213> Homo sapien

<400> 233

tcttctgaag	acctttctgg	actcttaago	tcttgggttg	taaggcaaga	ggagcgttgg	60
taaggcaaga	ggagcgttgg	taaggcaaga	ggagca			96

<210> 234

<211> 313

<212> DNA

<213> Homo sapien

<400> 234

tgtaagtcca	gcagtgtgat	gataaaactt	gaatggatca	atagttgctt	cttatgggatg	60
agcaaaagaa	gtagtttctt	gtgatggant	ctgctccttg	caaaaatgct	gtgaacgttg	120
ttgaaaagac	acaaagagt	ttagagtagt	acataaatct	agaatagtag	ataaacttag	180
aatagtaact	aaacttagta	cataaataat	gcacgaagca	ggggcagggc	ttgagagaat	240
tgaacttact	ttggaagag	tatctactgt	aggttagatg	ctctcaaaac	gaatracact	300
gtcgaactta	caa					313

<210> 235

<211> 550

<212> DNA

<213> Homo sapien

```

<400> 235
aaagaggaca gatcattaaa aagcatgttg agtgaaaaaa gtagaaaata agataatctc   60
cnaaglcacg tagcattatt taacacattt taanaaaatc actgataaaa attttgtaca   120
tttcccaaaa atacatatgg aagcacagca goatgaatgc ctatgggrtt gaggataggg   180
gttgggagta gggatgggga taagggggga aaataaaacc agagaggagt ctacacattt   240
tcctgaacca aggagtataa ttatttcaac tatttgtacc wgaagtccag aaagagtggg   300
ggcagaaggg ggagaagagg gcgaagaaac gtttttggga gagggggtcc aaaaagagga   360
ttttgcgat gtggcgctac atacgttttt ccagggtgcc ttaagctctg caccctattt   420
ttctcatcac taatataga ttaaacccct tgaagacaga gtctgtggtt tctctacttc   480
agctttccct ccgtgtcttg cccacagtag ctgttttaca aggyttgaac tgactgaagt   540
gagattattc                                     550

```

```

<210> 236
<211> 325
<212> DNA
<213> Homo sapien

```

```

<400> 236
tagactgact catgtccctt accagagtag ctagaattaa tagcacagc ctctacaccc   60
aggaactcac tattgaatac ataastgga tttatlcagc attaaaaagt ttggaaggaa   120
attctgacat atgtataaaa atggtatgac cttgaagact ttatgataag taagaagaagc   180
cagtcctaaa aggaataata ttgcattgatt ccaactatat gaggtaccta gqtegtcaa   240
tttcatagaa acacaaaata gaatgggtgt tgcacggggt tttagaggaa agggatgac   300
aagttagggg acatgagtaa gtcta                                     325

```

```

<210> 237
<211> 373
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(373)
<223> n = A,T,C or G

```

```

<400> 237
tagactgact catgtccctt atctactcaa catctccact tgaagtctga taggcctctc   60
agacttatct tgtcccaag caaacctctt attctcttct atctagtct ttatctcttg   120
tgctgtctta cccctctcaa aagagtgcg aaatccacca agttgcrgaa acagaaatct   180
aagaaatata ctgattcttt ctttttccca tctacttcaa ttctaatcaa ttagttaata   240
atctgtttca gaaaaccaaa nacctcatgt tctactcat aagggggagt tgaacaatga   300
gaacacacag acacagggag gggacatca cacacacagg ccgtccagg agtanaggac   360
atgagtcagt cta                                     373

```

```

<210> 238
<211> 492
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

```

```

<400> 238
tagactgact catgtccctt ataatgctcc caggcatcag aaagcatctc aaactggagc   60
tgacaccatg gcagaggttt caggttaagtc acaaaagggg tcttaagaa ttgacctca   120

```



```

atatcagagt gattagaaga agtggacaga gctacccaag ttaaacakat gcgagataaa 180
aaaaataatg caattgtgaa cacacactac aggaggaaaa taaggaaact aatagcatat 240
tgtgtatatta tgaatgatga gaacctctct anaagaaaaa ataaccsaag aaaaagaaga 300
aatcctctgc aatgtttaat gctatagaag aaatttaaaa aaactatata tcaatgaatt 360
cagaaaagtt agcaggtcan aagaaaacaa atcaaaagcc agaatatcc cattttagat 420
tgtcgaqtaa actanaacag aaagaatacc actggaaatt gaattctac gtangggaca 480
tgantcanc ta 492

```

<210> 239

<211> 482

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(482)

<223> n = A,T,C or G

<400> 239

```

tggaaagiat ttaatgatgg gcaacttgct gtttacttcc taatatccc atcatcttct 60
gtatititit aaataacttt tttttggatt ttttaagtaa ctttattctg agaggtaaca 120
tggattacat acttttaagc caataggaga ctctatgtta aacaaaaagg aatgttiact 180
agatcttcat ttgatcaata ggaatgtgata atcatctct tttgtctcta atggaaaagt 240
actanaaaca tggaaacata atcttagatg aacaacgtta gaatttgac taattctacg 300
gaatttcagt aattcggcaa atgtcgggca gtgacacaaa atttcatgac ggggacgcat 360
ctacaaactt ctggcgataa gggccacctt tccctctgta cttacagtc carttctac 420
acagtctttg attaatatt cacatktttt ctctacctaa agaccttcaa gaccagtacg 480
ta 492

```

<210> 240

<211> 519

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(519)

<223> n = A,T,C or G

<400> 240

```

tgtatcgacg tagtggtctc cccatgtgat agtctgaast atagcctcat gggatgagag 60
gctgtgcacc agcccgacac ccgtaaaggg tctgtgctga ggtggatttg taagaagaga 120
aagccttga gttgagatag aggaaggga ctgtctctg ccgtcccttg ggaactgast 180
gtctcgggat aaaaaccgat tgtacatttg ttcaattctg agatagaga aaaaaccacc 240
tatggcggga ggcgagacat gttggcagca atgtgtcctt gttatgcttt actccacaga 300
tgtttgggag gagggaacaa taatctggc ctangtgac atccaggcat agtacctcc 360
tttgaactta attatgacac agattccttt gctacatgt ttttttctg acctctct 420
tattatcac ctgtctctct accgacttcc ttgtgtgag aatatgaaa taatatnaat 480
aaaaactiga nggaactcgg agaccactac gtcgataca 519

```

<210> 241

<211> 771

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(771)

<223> n = A, T, C or G

<400> 241

tgatagagc	tagtggtctc	caatcccgac	ttgaacggggc	tgtatctctg	cttcacagggc	60
actgtcacgg	ctcccggtta	gaagtcactt	atgagacaca	ccagtgtggc	cttgttgget	120
tgaagctact	cagaggaggg	tgggaacaga	gtgacagagg	gggcagcctt	gggctgacct	180
aggacggtea	gcttggtccc	tcggccaaac	acgagagtg	tgtgcttgt	atatgagctg	240
cagtaataat	cagctctgtc	ctcagcctgg	agccacagaga	tggtcagggg	ggcgtgtttg	300
ccanacttgg	agccagagaa	gcgttagaa	acccctgagg	gcgattacc	gaactcatta	360
atcatgaatt	tgggggcctt	gcctgggtgc	tgttggtacc	angagacatt	attataacca	420
ccacagtcac	tgttggttcc	antgcaggga	aaatggttga	tcnacctgtc	caagaaaaac	480
actacgtcca	taccantcca	ctaattgcon	gcgccttcca	ggttcaccca	tattggggaa	540
naactcccon	cgcgcgtttg	ggattgncat	naacctttga	aattttttcc	tattanttgt	600
ccccctaaaa	taaaaccttg	ggcattaatc	cattgggtcc	atancttntt	tncccggttt	660
ttaaaanhtg	tttatccccc	cccccaattt	ccccccaaac	ttcccaaaac	ccgaaacct	720
tnaatcttnt	tnaaaccttg	gggggttccc	naatttman	tnaaacttcc	c	771

<210> 242

<211> 167

<212> DNA

<213> Homo sapien

<400> 242

tgggaacctt	caatatcggt	ctcatcgata	acatcacgct	gctgatgctg	ctgttgcctg	60
tctctctag	gaacctctgg	attttcaaat	tctttgagga	attcatccaa	attctctgoc	120
tctctctctt	tctctctttt	tataaggtct	tctgttccaa	gggttca		167

<210> 243

<211> 338

<212> DNA

<213> Homo sapien

<400> 243

ttgggaacct	tcaatatcta	ctgatctaaa	tagtggtggt	tgaggcctct	tgttccctggc	60
tcaaaaatct	tggcaagagt	caatctccac	tttcaaatag	aggttaaaat	cttcaaatgg	120
atattcttga	caaagctaga	atagagacng	caattttaca	caaggtattt	ttcactgttt	180
taataacagt	gggttttcta	cacccatagg	gtgccaccaa	gggagggagt	cacagttgca	240
gaacacaaat	aagatactga	agccacact	acttaacatt	tcccgctatg	ctaacaccaca	300
gttcaaatgt	acatgtatgt	tcttatgggc	aatcaaga			338

<210> 244

<211> 346

<212> DNA

<213> Homo sapien

<400> 244

tttttggctc	ccatcacaga	cactctcatg	ggaatgtct	gttctaaagt	caacccataa	60
tgcacaaate	atcaatatac	ctgaagatcc	cogtgaagg	tacaatgtat	ttaatatatt	120
cactgatata	attgatccaa	taccagtttt	agtatggcat	tgaatcaaat	caatgttttt	180
ggtgtataaa	aagagaaata	tttagcttat	attkaagtaa	catattgtaa	gaaaaaagat	240
gcttatcttt	acatgtataa	atcatgatct	gtacattggt	gcagtgataa	ttactgtaaa	300
aggggaagag	gaatgaagac	gaactaagga	tattgaaggt	gcccaa		346

<210> 245

<211> 521

<212> DNA

<213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(521)
 <223> n = A,T,C or G

<400> 245
 accaatccca cccggatact gagggacaag tatatcctcc catttcctcc ctacagcagc 60
 aacttostga ggcaggagtt attagtcaca ttttacagaa gaggaacctg agacttaggg 120
 agatcaagta atttgcacag gtgcacact tagtgataga ggcagggctt gaagcgacgt 180
 ctgtcttaag ccaatgaacc ctgcagatta ttgagcgaac tgtctctcac aacagtgtac 240
 gctctttgtt anaagctcag gtccacaagg gcagagatct ttgtctgttt tgcctattgc 300
 tcttccccc ttgcttagag cagggctctg ccggaacacg gttctcaatg catagtatt 360
 aatgtatat aagagcaaac atatgttaca gagaacttct tgtatgcttg tcaettacat 420
 gaatcacctg tganatgggt atgcttgctc cccantgttg cagatnaaga tattgaangi 480
 gcccaaatcc ctanttgagg gcgcctgcac gtccacata t 521

<210> 246
 <211> 482
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(482)
 <223> n = A,T,C or G

<400> 246
 tggaaacaa ccaaatccc atcaatgata gactggatca agaaaatttg gcacatgttc 60
 accatgaat actatgcagc cacaacaaag gatgagttca tatcctttgc agggacatgg 120
 atgaagcttg agaacatcat tctcagcaaa ctacacaggg aacagaaaaa caaacactgc 180
 atgtctcac tcttaagtcg ggcgtgacac atgagacac atggacacag ggaggggaac 240
 atcacacagt ggggcctgct ggtggctagg ggtctagggg agggatagca ttaggagaaa 300
 taccataggt agatgcaggg ttgatgggtg cagcaaacca ccatgcacag tgtataccta 360
 tctaacccac ctgcatgttc tgcacatgta ccccaagact tcaagtgtta ataaaaaat 420
 taagaaaaaa gtttaagtat tcatagatcc ataaaatatt gtatatattg naggtgcccc 480
 aa 482

<210> 247
 <211> 474
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(474)
 <223> n = A,T,C or G

<400> 247
 ttcgatcacg gcacagagta agcagaaaaa tggctgtggt ttaaccaagt gactacagtt 60
 aagttagaga ggggcagaga agacacaggg atatgcaggg ggtgattata acaggttggt 120
 gtgctgggaa gtgaggttac tctgggatga ggaacagtga aaaaagtggc aaagtgtgta 180
 agatcagtgat attgtacttc tccagaattt gatttctggn gtagtcaaat aactatccag 240
 ttgggggtat catanggcac cagttgaggt ataggaggtg gaagtcacag tgggtatatt 300
 gaggttatga aggttttgtt actgaactgg actgacaaag tctgggttat gaccatggga 360
 atgaatgaat gtanaagcgt anaggtatga actattccac gaaaaagggg tccnaaaac 420
 aaaaaannaa gnnnnnaggg satattattt atgtggatat tgaangtyoc caaa 474

<210> 248

<211> 355
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> {1}...{355}
 <223> n = A,T,C or G

<400> 248

ttcgatacag	gcacacatga	actgcaggag	ggtggtgacg	abcatgatgt	tgccgatggg	60
ccgatgggc	acgaagacgc	actggancac	gtgcttaagt	ccttttgctc	tgatgatggc	120
cctgagggga	cgcaggaccc	ttatgaacct	cagaatcttc	acaacgggag	atggcaactg	180
attgantccc	antgacccc	gagacacccc	aaccacccag	atatcaatat	attgatgtag	240
ttcctgtaga	nggcacpctt	gtggaggaaa	gctccatnag	ttggtcatct	tcaacaggat	300
ctcaacagtt	tccgatggct	gtgatgggca	tagtcatant	taacntgttn	tggaa	355

<210> 249
 <211> 434
 <212> DNA
 <213> Homo sapien

<400> 249

ttggattggg	cctccaggag	aacaagggga	aaaagggtgac	cgaggggctcc	ctggaactca	60
aggatctcca	ggagcaaaaag	gggatggggg	aattcctggt	cctgctgggc	ccttaggtcc	120
acctgggtcc	ccaggcttac	caggctcctca	agggccaaaag	ggtacaaaag	gctctactgg	180
acccgctggc	cagcaagggtg	acagtggtct	tccaggggct	cctgggcctc	caggtccacc	240
tggtagagtc	attcagcctt	tacaaatctt	gtcctcnaaa	aaaacgagaa	gacatactga	300
aggcatgcaa	gcagatgcag	atgataatat	tcttgattac	tgggatggaa	tggaaagaat	360
attgggttcc	ctcaattccc	tgaacaaaga	catcgagcat	atgaatttc	caatgggtac	420
tcaaaccaat	ccaa					434

<210> 250
 <211> 430
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> {1}...{430}
 <223> n = A,T,C or G

<400> 250

ttggattggc	acatggcaga	gacaggattc	caaggccagt	agaggaggat	acaaatgcttc	60
tcactagtta	ttactattta	ttttattttt	gagatgaagt	ctcgctttgt	ctccacaggct	120
ggagagcggg	ggtgcgatct	tggtctcttg	caacccccgc	ctcaagcaat	tctcctgtct	180
tagcctcggy	ggtagatgga	attacaggcg	cccaacggca	tgcccaacta	atttttttgt	240
gtcttcagta	gagacagggt	ctcgccatgt	tgggcagggt	ggtcttgaa	tctgaccttc	300
nagtgatctg	cctcctctgg	cctcaaaaag	tgcgggaatt	acaggcatgg	gctgctgcac	360
ccagtcacat	tctcactagt	tatggcctta	tcaatttcaa	caattcttat	tggcccaaaa	420
aaaaaaaaaa						430

<210> 251
 <211> 329
 <212> DNA
 <213> Homo sapien

<400> 251

```

tggtaactcga ccatyctggg gtaaacggcc atccctggcc tccctcctggc tgtttctcga 60
ggagttctgt cccaggtgca gctggtgcag tctggggcag aggtgaaaaa gtccggggag 120
tctctgaaga tctctgttaa gggttctgga tacaccttta agatctactg gatcgcttg 180
gtgcgcacgt tgcgggggaa aggcctggag tggatggggc tcatctttcc tgatgactct 240
gataccagat acagcccgtc ctcccaaggg caggtcacca tctcagtcga taagtccatc 300
agcaaccgct atctgcagtg gagtaccac

```

<210> 252
 <211> 536
 <212> DNA
 <213> Homo sapien

```

<400> 252
tggtaactcga ctccagcccaa ccttaattaa gacttaagag ggaacctatt actattctcc 60
caggctccctc tgcctcctacc agccttctgg gacagtatta gaaaaggatg tctcaacccg 120
tatgtagatc ctgtactggc ctaagaagtt aaactgagan tagcataaat ccgacccaac 180
ttaatggctg ttgagacttg tgcctcggag cagrtgggat agggaaactt ttgggcagca 240
agaggagaaa ctgcctggaa gggggcatca tgttaaaaat tacaaagggg acccacacca 300
ggccccccttc ccagctctca gcttagagta ttagcatttc ccagctagag actcacaaat 360
tccttgctta gaattgcca cgggggggag tccctgtggg tgatgaggct ctcaagagtg 420
agagtggcat cctatcttct gtgtgccac aggcgcctgg ccagagactt agcaggtgaa 480
gtttctggtc caggctttgc ccttgactca ctatgtgacc tctgggtggg taacca 536

```

<210> 253
 <211> 507
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(507)
 <223> n = A,T,C or G

```

<400> 253
ntgttgcgat cccagtaact agggaaagcty agggggggag atcacctgag ctccaggaggt 60
tgaggccgca gtgagccggg accacgccac tacactccag cctggggcat agagtggac 120
cctccagagc agaaagaaaa agaaaggaag gaaaggggaa agggaaaagg aaagggaaaa 180
ggaaaaggaa agggaaaaga caagacaaaa caagacttga atttgatct cctgacttca 240
atcttatgtt cttctctaac caaaktcct ctgcttacta agatgataat ttagaaaccc 300
ctcgttcgat tctttacaga aagctggag ttgggtcaag taattacaa atagtagaac 360
aatgtgaata ttatatgcca ggtgttttct atccctgctc tcaacttaat ctcaaccactc 420
tgatataaat acaattgctg ccgggtgtgg tggctcatgc ctgtaatccc ggcacttttg 480
gagaccgagg tgggaggata gcaacaa

```

<210> 254
 <211> 222
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(222)
 <223> n = A,T,C or G

```

<400> 254
ttggatttgt cactgtgagg aggcraaato ggaaccgaga gtctttttct aaagggcaagt 60
actggccaaa cttctctctg ccgccttctt aaagctgaa gacacccaga gcaaggcggt 120
tctgttttac tcccaatgy taactccaaa ccagagatgy ttagctnccc tgcctcatct 180

```

tccacatccc tgetattcag tatagtccgt ggaccaatcc aa 222

<210> 255
 <211> 463
 <212> DNA
 <213> Homo sapien

<400> 255
 tgttgcgctc cctaaetgct gasatggasa taaacaacat gatgagggag gattaagttg 60
 gggagggagc acattanngt ggccatgaag ttgtgtggaa gaagtgaact ttgaacaagg 120
 ccttgggtgtt aagagctgat gagagtgtcc cagacagagg ggccactggt ccaatagacg 180
 agatggggaga gggcttggaa ggtgtgcgaa ataggaaagg gtttgttctg gtatgagtct 240
 agtgaacaca gaggcgagag gccctggtgg gtgcagctgg agagttatgc agaataacat 300
 tagggccctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa 360
 gagtgatggg aagcctggga aagggggtta agcaaggagt gaattatca gatttacagt 420
 gataaaaaa atttgggtctg gctactgggg aaaaaaaaaa aas 463

<210> 256
 <211> 262
 <212> DNA
 <213> Homo sapien

<400> 256
 ttggatttgt caacctgctc aactctacgt ttctctcttc ttcctaasaa attaatgaat 60
 ccataacatt atgcccasa ccttgggttt ttatcaatai ttctgttaaa aagattatcc 120
 cagaacttga cctactacta cataataata cataacaacc ctttcatctg gatgcacaca 180
 tcttataata tagcttaaga tcactttcac tttaacagaag caacatcctg ttgatgttat 240
 ttgatgtttt ggacaaatcc aa 262

<210> 257
 <211> 461
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 257
 ggggmmmmn nnncaattcg actcngttcc ccttggtancc ggtcgacttg gccgcgggat 60
 taccgcttgt nnetgggggt gtatggggga ctatgacccg ttgtagctgg ggtgttatgg 120
 gggactatga ccgctttagt atggkkggtgt atgggggact atgacccgct gtgggttgtt 180
 cggataaacc gacgcaaggg acgtgatcga agctggttcc ccgtcttctc gcctcggtag 240
 ggatccttga cagcaatctc cgcatttcgc tgaaggcgtt cgaacatcgc gtgtctgacg 300
 aggcgacccg cgaatctcgc gacacccgac ggcgtacccg ccgctctcgc ccggttcgga 360
 tcccgcttcc cccgcgcctc gagaagttca cgttaacccg tggcccgcac gtgcacaaag 420
 agtcgcgcga gcagttcgag gtgcgtacat acaagcgttc a 461

<210> 258
 <211> 332
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(332)
 <223> n = A,T,C or G

```

<400> 258
tgcgcgccttg tagctggggg tgtatggggg actacgacccg ctgttagctg ggggtgtatg    60
ggggactatg accgccttgta gctgggggtg tatgggggac tatgacccgt tgtagctggg    120
gggtgtatggg ggaactaggac cgcctgttagc tgggggtgta tgggggacta tgaccgcctg    180
tagctggggg tgtatggggg actacgacccg ctgttagctg ggggtgtatg ggggactatg    240
accgccttgta actgggggtg tatgggggac tatgacccgt tgtgtctgct gggggatggg    300
aggagagcttg tgggtgggga aaaaaaaaaa aa                                332

<210> 259
<211> 291
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 259
taccgccttgt gaccgccttgt gaccgccttgt gaccgccttgt gaccgccttgt gaccgccttgt    60
gaccgccttgt gaccgccttgt gaccgccttgt gaccgccttgt gaccgccttgt gaccgccttgt    120
gaccgccttgt gaccgccttgt nnnnnnnnnn gtctggggga ctatgannga ntgttactgg    180
gggtgtctctg ggggctatga nngantgtta cnggggggtg ctgggggact atganngact    240
gtgcnncctg ggggatcnga ggaantngn ggttagngat ggttngggan a                                291

<210> 260
<211> 238
<212> DNA
<213> Homo sapien

<400> 260
taagagggtg ctggttaaaa tacaggaaat ctggggtaat gaggcagaga accaggatac    60
tttagggtoa ggggtgaaa ctagaatttt tttctttttt tttagctgag aaacttgcctg    120
ctctgaagag gcccctgtat taattgcttt gatcttcttt ttctttaggc cctttcaagg    180
gcagagccct ccttatctg aggaattctt atccttagct atagtatgta cctcttta    238

<210> 261
<211> 746
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 261
ttgggcacct tcaatatcaa tagctaacat ttattgagtg ttatctgtat cctaaacac    60
tgttctaagc ctttaaacgt actaatctat ttaatgctca taatcacttt agaagggtgg    120
tactagtatt agtctccttt accagctgca catgcaggca cagagagggtt aatttaactg    180
cccagggtta cacagctaa gaaatagaaa antatlgaa ctggaaagtt gggcttcttg    240
tgaaccacaa gagtcttcaa tgaacctggg guctaacctaa gtttgccttt acaagcgaa    300
tgagtaaat cacttaattt agtgagttag ccaaatggag gtcagctacy agtttctgct    360
gttcttgca ggaactgaca gatgtttaca acgtctggcc atcagttaat ggaatgatta    420
tcattgggaw gtgggtgggc tgaatgttgg ccagtgaagt ttattcawgc catattttta    480
tgtttaggat gacttttggc tggctctagg gcaagctctg tctgcaagg aacacagaa    540
wacacaggga cccctcaaat ttctggtgtg gctagaaaca tgaaccactg gttgggggaa    600

```

```

caaggggtica aaacctaagt gggggcggtt ggcaggggtcc acccataatgg ggaataactcc 660
caaggggttth ggaatggctn sgctngaat attctaanag ttgtccnctt aaaattagcc 720
tgggggttaa tcagggttca naagcc 746

```

```

<210> 262
<211> 588
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(588)
<223> n = A,T,C or G

```

```

<400> 262
tgacggcttg toatorcana tgggggtctg caagcttttg cctttgtagg aaacctgaca 60
tttgtctgtt tottctttct ctlttcttct ccatactctc ctaatttacg ttgtacttgt 120
ttgttgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttactct 180
tcaggctccg cccactcata actgtctctc acctccctt gaccaggctt acaagtgggt 240
tcctggctgc ttltcccttg gacccaacaa gccctgttaa tgagtgtgca tgactctgac 300
agctgtggac tcagggtctt tggctacagc tggcctgtaa aatctctcat ccagttctcg 360
caaatgttta aaataaccac attctttagc ttccagtacc caaatcatgt ctttacgaac 420
tgctctctcc aaccagaagt ggcacaatac ttcttgggga attattactt ttttttttct 480
ctctntttac gnnngnnnnn gnnngnccag gaattaccc cttgggaagac ctggccngaa 540
tttattatan aggggagccg atknttttct ctaacacaaa ggggggtca 588

```

```

<210> 263
<211> 730
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

```

```

<400> 263
tttttttttt ttgggctga gaaactgaa ttatgaaatt tccatatact caaaagagta 60
agactgcaca aagattaaat gtaaaagttg tcttgtatac agtaatgttt aagataacta 120
ttanatttat aaatggaana ttagggaatt tggatataca agttgaaaat tcaggagtga 180
ggttgggctg gctgggtata tactgaaaac tgtcagtaaa cagatgacat cttaaacacc 240
aaatctggtt ttatttttagc agtgatatgt gtcaactcca caaaagcctt cccaattggc 300
ctcagcttac acaacaagtc acctccccc agccctctac acataaacaa attccttagt 360
ttagttcagg aggaatatgc cctttttctt tccgtcttag gtgacggcaa ggcccagttc 420
tcgtcaccca gatgttaagg gaagctctgc aaagagggat ctgaagggaa ataaggggaa 480
tgaggagtga cacaaggaa agccaaagg aaactttgga gaccgtttct aganccttgg 540
catttcacaa caaaactcng gacaaaacct tgtctcatca atcatttaag cctttcggtt 600
ggannagact ttctgaactg ggcgtgaaac ataacctca ttgaatgtct tcacagtctc 660
ccagctgaag gccacacttg ggcagaagg ggaatcttcc aggtctctca naaagggtct 720
gccctttgnc 730

```

```

<210> 264
<211> 715
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature

```


<222> (1)...(715)
 <223> n = A,T,C or G

<400> 264

tttttttttt	tttggccagt	atgatagtct	ctaccactat	attgaagctc	ttaggctcatt	60
tacacttaat	gtgggtatag	atgctgttga	gattactctt	accaccttgc	tatttctccc	120
gtctcttttt	tggttctttt	ctcttctttt	cctcccttat	tttataattg	aatttttttag	180
gattctattt	tatatagatt	tatcagctat	aacactttgt	attcttttgi	tttggtggttc	240
ttctgtcctt	tcaatgtgca	tctttaaact	atcacactct	attttcctat	aatactatat	300
aaccttacct	ataatgttaag	aacttaccac	catacttttc	catttctccc	ttccatacta	360
tgtntgtcat	attttttcct	ttatatatgt	tttaagagca	taatagtata	tggggaggttt	420
ttgcttaaaa	tgtgatcaat	attccttcaa	ngaaacgtta	aaattcaaaa	tcaatctctg	480
tttatctctc	aatttttcta	atatttctta	ccatntctna	tacntttcaa	gaatctgaag	540
gcatttggtt	tttccggctt	aagaaactcc	tctaagccac	tctaagcaga	attaagtctt	600
ctgggagagg	aattctccca	agcttgggoc	tttaanngtta	ccctttnaag	gttaaanitt	660
ggcggggaaa	tagaacttcc	aagttaacag	gntanttttt	attttttttt	tcncc	715

<210> 265

<211> 152

<212> DNA

<213> Homo sapien

<400> 265

tttttttttt	tttcccaaca	caagccacaa	ttatcttttc	tcacaatttt	caacatagtt	60
tgattcccat	gaagagggtta	tgattttctaa	agaaaacatg	gtactatatc	tatcaatcag	120
ggttaaaakt	tttttttttg	agaaggagtt	ta			152

<210> 266

<211> 193

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(193)

<223> n = A,T,C or G

<400> 266

ttaactccgt	ccccttctta	atcaatctgg	aggctaccca	ctccacattt	ccctcttttc	60
aagggactgt	ttccgttaact	gttgtgggtt	ttcagcccaa	ggcttctaaa	ccctcttaaa	120
ctccccaat	ctgggtccaa	cttggacaa	atgtcttttt	tttttttttt	tttttttttt	180
gagacggagt	tta					193

<210> 267

<211> 460

<212> DNA

<213> Homo sapien

<400> 267

tggttgcgac	ccttaagcat	gggtgctatt	aaaaaatggy	tygagaagaa	aatacctgga	60
atttaagtat	tatctttaga	gatttgggag	acctgatggy	aggaagtgya	gaacagcttc	120
ttcttgaatg	tcaattccca	agtaacacaa	gtgtgtcagg	cacttgctaa	ggatcctaaa	180
ttgcagcaag	gtatcaatgc	tatgggtatc	tccaggggag	gccaatttct	gagggcagtg	240
gctcagagat	gcccttcacc	tccatgate	aattgatctc	cggttggggg	acaacatcaa	300
gggtgttttg	gaatccctcg	atgccchaga	gagagctctc	acatctgtga	cttcatccga	360
aaaacactga	atgtctgggg	gtactccaaa	gttgttcagg	aacgctctgt	gcgaagccga	420
tacttggcat	acctataaaa	ggaggtatgt	gatggcaaca			460

<210> 268
 <211> 533
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc feature
 <222> (1)...(533)
 <223> n = A,T,C or G

<400> 268
 tggttgagatc cgttgataga atagcgacgt ggtaatgagt gcctggcaag cctccgactt 60
 accttgcgcc gtggggagcc cgaatcagtc tacggcgctcg tcaattagag taacctctgg 120
 acgcgcgggc gcgttcgatt taccgggaagc gcgagctgca gtgggcttgc gcccccggcc 180
 aaattctttg gggggtttaa ggcgcggggg aatttgaggt atctctatca gtatgtagcc 240
 aagttggaac agtcgcatt ccggaatcg ctttctttga atccgcaccc cctccagcat 300
 tgcctcattc atcaacctga aggcacgcct aagtgcgggt tgtgtcttca gcagctccac 360
 tccataacta ggcgcctcga cctcgtcttc gtacgcgcca ggtccgtgag tgcgaattcc 420
 caactccggt gagttgggca ttccagttc cgaacctgtt cgcctccacn atttggcatg 480
 ttcaagcatg acacggaata aactcgtcca gtaccgggaa tgggctcgca aca 533

<210> 269
 <211> 50
 <212> DNA
 <213> Homo sapien

<400> 269
 tttttttttt ttgcgcgaa ttgctacag atctctctca caggcyytca 50

<210> 270
 <211> 519
 <212> DNA
 <213> Homo sapien

<400> 270
 tgttgcgac ccaataaccc accagcttct tgcacacttc gcagaagcca ccgtcctttg 60
 gctgagtcac gtgaacgctc agtgcagca gccgcgtgcc agagcagagg tgcagcatgc 120
 tgcacacccg ctccgggctg acctcctcca gcaggatgga caggatggag ctgcogtacg 180
 tgtccacccg ctcttgccac tcttcggaca gggacttcgg cagtttcgag cacattttgt 240
 caaaagcgtc gagtatttct ttctcagttc tgttgttgc aatcagctt gtcacctcct 300
 tccacaggaa ttccacaccc tccagtaaa catcagactt tgcggggacc tctgtcttct 360
 taatgggctc caccagttcc agggcaggga tgacattctt ggaggccact ttggcgggga 420
 ccagagctct catgggcctc tctttacct catcacagaa ccccaaccag gcacagatct 480
 ccttgggttg catgtgcctc atcctctggg atcgcaaca 519

<210> 271
 <211> 457
 <212> DNA
 <213> Homo sapien

<400> 271
 tttttttttt ttccggcggc gacccgacgt gcaactcctc agtagcggt gcacgtcgtg 60
 ccaatggccc gctatgagga ggtgagcgtg tccgcttcg aggagttcca ccgggcgggtg 120
 gaacagcaca atggcaagac ctttttcgcc tactttaagg gttctaaagg ccgggggggg 180
 aaagcttggg gccccgactg cgtgcaggct gaaccagtcg taagagaggg gctgaagcac 240
 attagtgaag gatgtgtgtt catctactgc caagtgggag aagagcctta ttggaagat 300
 ccaataatg acttcagaaa aaacttgaaa gtaacagcag tgcctacact acttaagtat 360
 ggaacacctc aaaaactggt gaaactgag tgtcttcagg ccaacctggt ggaactgtg 420

ttctctggaag attaagattt taggatggca atcaaga 457

<210> 272
<211> 102
<212> DNA
<213> Homo sapien

<400> 272
tttttttttt ttgggcacac acctgaatac ctcttcaagg ctctggcttg ggtcacaagc 60
cgacggggaa atgcaactgg ccagggtcac gggcaatcaa ga 102

<210> 273
<211> 455
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(455)
<223> n = A,T,C or G

<400> 273
tttttttttt ttggcaatca acagggtttta gtcttcggcc gaagttaatc tctgtttttt 60
ggcaatcaac aggttttaagt ctctgggcga agttaatctc gtgttttttg caatcaacag 120
gtttaagttc ttgggcgaag ttaattctgt gtttttggca atcaacaggc ttaagtcttc 180
ggcgaagttt aatctctgtt ttttggcaat caacagggtt agtcttcgg ccgaagttta 240
tctctgtttt ttggcaatca acagggtttta gtcttcggcc gaagttaatc tctgtttttt 300
ggcaatcaag aggttttaagt ctctgggcga agttaatctc gtgttttttg caatcaacag 360
gtttaagttc ttgggcgaan ttaattctgt gtttttggca atcaacaggc ttaantcttc 420
ggcgaagttt aatctctgtt ttttggcaat caaaa 455

<210> 274
<211> 461
<212> DNA
<213> Homo sapien

<400> 274
tttttttttt ttggcaata ccttggatga acatcaatgt gaaaatcttc ggtaaaatac 60
tggcaaacca aatccagcag cacatcaaaa agcttatoca ccatgatcaa gtggggttca 120
tccctgggat gcaaggctgg ttcaacataa gaaatcaat aatgtaatc catcacataa 180
acagaaccas agacaaaac cacatgatta tctcaataga tgcagaaaaag gcttgggaca 240
aatcaaacag ccttccatgc taacacatct taataaataa gatattgatg gaattgtctc 300
caaaataata agagctatct atgacaaac ccaggccaat atcaactga atgggcaag 360
actggaagca ttccttttga aaactggcac aagacaagga tgcctctctc caccgtctct 420
attcaacata gtattggaag tcttggccag ggcacatcaag a 461

<210> 275
<211> 729
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(729)
<223> n = A,T,C or G

<400> 275
tttttttttt ttggcaaaa ccaagttctc ccagtgggag gttttattat gttttacaa 60

```

catgaaaaca taggaaggtg gctgttacag caaacatttc agatagagga atcggccaag 120
ctccccaaac cccaccctca cagcctcttc caccagtttc ccanagattg ttgtccttca 180
cttgcaaaat canggatgtt ggaagtngac atttnnagtn gonggaaccc catcagtcaa 240
ncanlaagca gaanteagat gactttgana naccnctgat gaagaacacn ctacnganaa 300
ccctttctat cgtgttaaga tctcnngtcc ntccctaaty cggccccctg cnggtccacc 360
atttgggaga actccccccn cgttggatcc ccccttgagt ntccattset ngccccccan 420
accagmettg agnagcanta cncctcnca ccttgittcc ctgengtnaa aatnagtitt 480
nccgcncncc naattccac ccaatccca gagaacnccg aaggecttcn naagtgttta 540
angvccngng gtttccctcn ntanttgca cctacccctcc cctttnnnnt tncngtttgg 600
tcgcgccttg gncncccta gtccctcttt nnggnacaa cctngntcnn ngynccntcn 660
nncctattcc tnnnactaga tngcctatcc scncngngn ncanngcaca ttncnccnac 720
tntgtancc 729

```

<210> 276

<211> 339

<212> DNA

<213> Homo sapien

<400> 276

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tgacctgaca tctagttagt acttaataaa tatttgtgga atgaatggat gaagtggagt 60
tacagagaaa aatgaaaag tacaaattgt tgtcagtggt ttgaaggaaa attatgactc 120
ttccccaaat tctgaactca ttctaagaca ggttagtat ctccatacat aattttaact 180
gcctttgaaa ctcanatgag atactctatt tagattgata atttatttag actggctata 240
aactattaag tcttagcaca tatcatttt aatctcattt tccacctctt gtgatatagc 300
tatgtagggt ttgactttta tggatgtcag gtcaatccc 339

```

<210> 277

<211> 664

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(664)

<223> n = A,T,C or G

<400> 277

```

tgacctgaca tccataacaa aatctttctc cattalatcc ttctagggga atttcttgaa 60
aagcatccaa aggaacacaa tgctggtaag acctgcccac gtggggagca gacaccaaag 120
taagaccaca gattttact tccacaggtc gctcacagta ctttgcccga cactgtgggc 180
agaaatagcc tctaatgta agccctggct cagtattgcc atccaatgc gccatgctga 240
aagaggggtt tgcctctctg tncgatnaag aagcaatggt gtgctgagga actcccatac 300
gaataagtga gcattcagaa cttgagctag caggaggagg actaagatga tgtgtgagca 360
actctttgta atggcttcca tctaaaataa catggtaagt gccaccagtt tcaegagcaa 420
gtacagtgca aacggaact tctgcagaca atccaatcac agtaactcta attttagctg 480
cctttagggt cttgattaaa tctaaaatat tagatggatc gcnagtgtga aggnbtgtas 540
aagatgatta gtactctctg acttgtagt ccaggcatgt tgttttaann tctgccttag 600
nccctgctta ggggaatttt taaagagat ggtctccat gttcanggtc actcacnaat 660
tgc 664

```

<210> 278

<211> 452

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(452)

<223> n = A,T,C or G

<400> 278

```

tgacctgaca ttgaggagga gccacacact ctgaaattcc ttaggttcag aagggcattt    60
gacccagagt gggccctctg taattcatga aatgcattcc gaagtcacc agaatggagg    120
ctgcactctg ctgtgctttg ggggttgccct caactgtgctc ctggctatca cacaanaagct    180
gcaatccttc ttcttcactt aacattttgc agtattttgc gggattttta ctgcagacat    240
gatacatagc ccatagtgcc cagagctgaa cctctggttg agagaagtgc ccaaggagcg    300
ggaaaaatgt ctigaagat ctataggtca ccaatgtgtt catcttaca cttgaacttg    360
gccaatcttg tatggctgca tgcagatctt ggagaagagt acgctctcgg aagtcacggg    420
ataccaaan ctgtctgtca gatgtcaggt ca
                                         480

```

<210> 278

<211> 274

<212> DNA

<213> Homo sapien

<400> 279

```

tttttttttt ttgggcaagg caaattttact tctgcaaaag ggtgctgctt gcactttttg    60
ccactggcag agcacaccca acaaatgtag gaaggggttt ttatccctaa cggcgtttat    120
ccctgtttct gtgtgtgtgc ccatttggct ggagtcagac tgcacaatct scactgccc    180
aactggctac tgttttaaat tgaatatgaa taattaggta ggaaggggga ggtgttttgt    240
tcagggtaca gcgtgtttt ggatgtcag gtca
                                         274

```

<210> 280

<211> 272

<212> DNA

<213> Homo sapien

<400> 280

```

tacctgacct ggagaatata ctgtagtat tttgcgtgca atggaatact atatgagggg    60
gaaatgaat gaactagcca tgcgtgtatc aacatgaata aatccccaa acataataat    120
gttgasttga aaaggtgagt ttcagaagga tatatatgcc ctctaaatcc atttatgtaa    180
acctttaaaa aactaatta tttatggtca taagtccac cagaatatat ttaaaaacct    240
acatgggatt gataactact gatgtcaggt ca
                                         272

```

<210> 281

<211> 431

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(431)

<223> n = A,T,C or G

<400> 281

```

tttttttttt ttggccaata gcatgattta aacattggaa aaagtcanaa gagcaatgag    60
aatttttatg ttctcttgaa taatcaaaag agtaggcaac attggttccct cattcttgaa    120
tagcattaat cagaaaatat tgcatagcct ctagcctcct tagagtaggt gtgtctcttc    180
aaatctatca tagtccaca gtttatttca tgtatatttt ctgcttgaat acatagaca    240
tttgaaattg caacgcttga tgaatatata taattcttta ccaatcagaa acatagcaag    300
aaattcaggg acttggctat yacagggta tgcagcana tccctgtara aacactgata    360
cacactcaca cacttatgca acgtggagat gtgcgcttw kkktyweww xmyerwogn    420
aatcaacttan n
                                         431

```

<210> 282

<211> 98

```

<212> DNA
<213> Homo sapien

<400> 282
attcgattog atgcttgagc ccaggagttc aagactgcag tgagccactg caattcaggo    60
tggacaacag agcgagtccc tgtgccaaa aaaaaaaa                               99

<210> 283
<211> 764
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(764)
<223> n = A,T,C or G

<400> 283
tttttttttt ttgcgaagca cgtgcacttt attgaatgac actgtagaca ggtgtgtggg    60
tataaactgc tgtatctagg ggcaggacaa agggggcagg ggaacagcc ccagcgtgca    120
gggcacacac tgcacagtgg actgcasaag ttgcaggcta tggcgggcta ctavtaaccc    180
cgttttttct gtattatctg taacataata tggtagactg tgcagagacc gaattccart    240
hacagatga atcaaaagggt caggaggatg ccacaaatca gggcccaaat attcaggcac    300
ttggcgggtg gggcataagg ctgkgcccog gtcacgtcac caacwtcty cctgtcccta    360
cmcttgawtc cnencccttn nctnccctna tntgcocgcc cncctccttg ngtcaacng    420
naktgcact aactaacten ccccttnttg antctentec ttcaantaa nttatccttn    480
acncccccc cnccttccc ctacncccn tnatccngn nccctatca ntctacccr    540
cncctnctn cncctcgttc cncctnctaa ctacctttn nccnannccr cactnctncc    600
ngnnaatttc ttcttccct ccnaagenn tgcgtgcgcc cgtctngccr nnnctnccna    660
ccnnaatttc atttaccctt nccacctaga actctacttn acccancnc tcttacctac    720
ngnccaccc anccctnctc nctnctctn tennctentt cccc                               764

<210> 284
<211> 157
<212> DNA
<213> Homo sapien

<400> 284
ccagtgtagg cacagtgatg aaagccctga gcaaacacaa totgtggyta attaacgttt    60
atttctccc ttocaggaac gtcttgcctg gatgatcaa gatcagctcc tggtaacacat    120
aaataagcta gtttaagata cgttccctca caattga                               157

<210> 285
<211> 150
<212> DNA
<213> Homo sapien

<400> 285
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tagatgagaa gctgcctagg tctgagtaca                               150

<210> 286
<211> 219
<212> DNA
<213> Homo sapien

<400> 286

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gcaacotttg ttaggatcaa tcaaatatto accatctggg aagtcaggat ggtgagttg      180
caggttttta caagttcggg ctggattggt ctgagtaaa      219

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<210> 287
 <211> 196
 <212> DNA
 <213> Homo sapien

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<400> 287
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actgtgagag agtacatttc tcttggttta agccagaga atctgtctct tggtaattta      180
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<210> 288
 <211> 199
 <212> DNA
 <213> Homo sapien

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<400> 288
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<210> 289
 <211> 162
 <212> DNA
 <213> Homo sapien

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<400> 289
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aa      182

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<210> 290
 <211> 1646
 <212> DNA
 <213> Homo sapien

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<400> 290
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<210> 291

<211> 1051

<212> DNA

<213> Homo sapien

<408> 291

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<210> 292

<211> 1051

<212> DNA

<213> Homo sapien

<400> 292

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<210> 293

<211> 669

<212> DNA

<213> Homo sapien

<400> 293

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<210> 294

<211> 1812

<212> DNA

<213> Homo sapien

<400> 294

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<210> 295

<211> 1853

<212> DNA

<213> Homo sapien

<400> 295

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<210> 296

<211> 2184

<212> DNA

<213> Homo sapien

<400> 296

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<210> 297

<211> 1855

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)... (1855)

<223> n = A, T, C or G

<400> 297

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<210> 298

<211> 1059

<212> DNA

<213> Homo sapien

<400> 298

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<210> 299
<211> 329
<212> PRT
<213> Homo sapien

<400> 299
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35 40 45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
50 55 60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65 70 75 80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val
85 90 95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr
100 105 110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp
115 120 125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp
130 135 140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser
145 150 155 160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys
165 170 175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala
180 185 190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly
195 200 205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr
210 215 220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr
225 230 235 240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu
245 250 255
Leu Gly Ile His Glu Gln Lys Gln Glu Val Val Lys Phe Leu Ile Lys
260 265 270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu
275 280 285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu
290 295 300
Gln Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu
305 310 315 320
Ser Met Leu Phe Leu Val Ile Ile Met
325

<210> 300
<211> 143
<212> PRT
<213> Homo sapien

<220>

88

<221> VARIANT
 <222> (1)...(146)
 <223> Xaa = Any Amino Acid

<400> 300

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 20          25          30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys
 35          40          45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu
 50          55          60
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp
 65          70          75          80
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Glu Glu Asp
 85          90          95
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro
100          105          110
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp
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Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser
130          135          140
Lys Asn Lys Val
145

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<210> 301
 <211> 1155
 <212> DNA
 <213> Homo sapien

<400> 301

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agcaacgttg gcaattcttg agccacagac gactctgcta tgaagcact caggagcaag      180
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gccagagagt atctgttttc tagtcacat catgtaattt gccagttact tctgactac      1080
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accagaata aataa
1155

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<210> 302
 <211> 2000
 <212> DNA
 <213> Homo sapien

<450> 302

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<210> 303

<211> 2040

<212> DNA

<213> Homo sapien

<450> 303

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<210> 304

<211> 384

<212> PRT

<213> Homo sapien

<400> 304

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20     25     30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35     40     45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50     55     60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65     70     75     80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85     90     95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100    105    110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115    120    125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
130    135    140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145    150    155    160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
165    170    175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Gln Val Val Lys Leu Leu
180    185    190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195    200    205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
210    215    220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Gln Tyr Gly Asn
225    230    235    240
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245    250    255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly

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Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
      275      280      285
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
      290      295      300
Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
305      310      315      320
Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
      325      330      335
Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
      340      345      350
Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
      355      360      365
Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
370      375      380

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<210> 305
<211> 636
<212> PRT
<213> Homo sapien

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      <408> 305
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20      25      30
Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
35      40      45
His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
50      55      60
Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
65      70      75      80
Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
85      90      95
Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100      105      110
Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115      120      125
Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His
130      135      140
Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145      150      155      160
Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala
165      170      175
Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu
180      185      190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195      200      205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met
210      215      220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn
225      230      235      240
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
245      250      255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
260      265      270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
275      280      285

```

Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu
 370 375 380
 Glu Gln Ser Gln Arg Phe Lys Gly Ser Gln Asn Ser Glu Pro Glu Lys
 385 390 395 400
 Met Ser Gln Gln Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu
 405 410 415
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn
 420 425 430
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro
 435 440 445
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu
 450 455 460
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu
 465 470 475 480
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp
 485 490 495
 Leu Lys Leu Thr Ser Glu Glu Glu Ser Glu Arg Leu Glu Gly Ser Glu
 500 505 510
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys
 515 520 525
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly
 530 535 540
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser
 545 550 555 560
 Arg Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr
 565 570 575
 His Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln
 580 585 590
 Asn Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln
 595 600 605
 Ile Glu Val Val Gln Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys
 610 615 620
 Lys Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Gln Glu Ile
 625 630 635 640
 Ala Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
 645 650 655

<210> 306

<211> 671

<212> PRT

<213> Homo sapien

<400> 306

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 1 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp

35					40					45					
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
50					55					60					
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65					70					75					80
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
				85					90					95	
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
				100					105					110	
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
				115					120					125	
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
				130					135					140	
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
				180					185					190	
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
				195					200					205	
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Gln	Asp	Glu	Cys	Ala	Leu	Met
				210					215					220	
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Gln	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Glu	Ser	Lys	Asn	Lys	His	Gly
				260					265					270	
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
				275					280					285	
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
				290					295					300	
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Gln	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Glu	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
				340					345					350	
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Gln	Lys	Gln	Met	Leu	Lys	Ile
				355					360					365	
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Gln	Gln	Asp	Leu	Lys	Leu	Thr	Ser</	

```

      500      505      510
Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp
      515      520      525
Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys
      530      535      540
His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala
      545      550      555      560
Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg
      565      570      575
Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His
      580      585      590
Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn
      595      600      605
Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Gln Lys Gln Ile
      610      615      620
Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys
      625      630      635      640
Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala
      645      650      655
Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu
      660      665      670

```

<210> 307
 <211> 800
 <212> DNA
 <213> Homo sapien

```

<400> 307
atkagcttcc gcttctgaca acactagaga tccctccctt ccttcagggt atggccctcc      60
acttcatttt tggtagacaa catctttata ggacaggggt aaatcccaa tactaanagg      120
agaatgctta ggaacttaac aggtttttga gaatgtgttg gtaagggcca ctcaatccaa      180
ttttctttgg tcttctttgt ggtctaggag gacagggcaag ggtgcagatt ttcaageatg      240
catcagtaag ggccactaaa tccgaccttc ctcttctctc ctgtgtgtct gggaggaaaa      300
ctagtgtttc tgttgtgtgt taagttagca caactattcc gatcagcagg gtccagggac      360
cctgcagggt tcttgggcag ggggagcaac aaacccccc aacccatgg corgttttgt      420
cttcagatg ggaacactc aggcacaaac aggtcacct ttgaatgca tctaaagcca      480
atgggacaaa tttagccca aaacccctga aaagagggtg gtcattttt tttagcactat      540
ggcttggccc caacattctc tctctgatgg ggaassatgg ccacctgagg gaagtacaga      600
ttacaatact atctgcagc ttgaaccttt ctgttagagg gaaggcaaat ggagtgaat      660
accttatgtc caagctttct ttccattgaa ggagaataca ctatgcnaag cttagaattt      720
acatcccaaa ggaggacctc taagcttacc cccatctctt agcctcccta tagctccct      780
tctattagt gataagctc

```

<210> 308
 <211> 102
 <212> PRF
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1)...(102)
 <223> Xaa = Any Amino Acid

```

<400> 308
Met Gly Xaa Phe Val Phe Gln Met Gly Asn Thr Gln Ala Ser Thr Gly
  1          5          10          15
Ser Pro Leu Lys Cys Ile Leu Ser Gln Trp Asp Lys Phe Asp Pro Gln
      20      25      30

```

95

```

Thr Leu Glu Lys Glu Val Ala His Phe Phe Cys Thr Met Ala Trp Pro
    35          40          45
Gln His Ser Leu Ser Asp Gly Glu Lys Trp Pro Pro Glu Gly Ser Thr
    50          55          60
Asp Tyr Asn Thr Ile Leu Glu Leu Asp Leu Phe Cys Lys Arg Gln Gly
    65          70          75          80
Lys Trp Ser Glu Ile Pro Tyr Val Gln Ala Phe Phe Ser Leu Lys Glu
    85          90          95
Asn Thr Leu Cys Lys Ala
    100

```

```

<210> 309
<211> 9
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in the lab

```

```

<400> 309
Leu Met Ala Gln Glu Tyr Thr Ile Val
1          5

```

```

<210> 310
<211> 9
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in the lab

```

```

<400> 310
Lys Leu Met Ala Lys Ala Leu Leu Leu
1          5

```

```

<210> 311
<211> 9
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in the lab

```

```

<400> 311
Gly Leu Thr Pro Leu Leu Gly Ile
1          5

```

```

<210> 312
<211> 10
<212> PRT
<213> Artificial Sequence

```

```

<220>
<223> Made in the lab

```

```

<400> 312
Lys Leu Val Leu Asp Arg Arg Cys Gln Leu
1          5          10

```

<210> 313
 <211> 1852
 <212> DNA
 <213> Homo sapiens

<400> 313
 ggacagagaa ttaaaacccct cagcaaaaaca ggcataagaag ggacataacct taaagtaata 60
 aaaaaccacct atgaccaagcc cagagcccaac ataatactaa atgggggaaa gttagaagca 120
 tttcctctga gaaatgcac aataaatata aggatgctgg attttgtcaa atgacctttc 180
 tgtgtctgtt gagatgotta tgtgaatttg cttttaattc tgtttatgtg attatcccat 240
 ttattgacct gactgtgta gacgggaaga gctgggggtg ttctcaggag ccacccgtgtg 300
 ctggcgacgc ttggggataa cttgagggctg catcaactgg gaagaaacac aytccctgtcc 360
 gtggcgctga tggctgagga cagagcttca gtgtggcttc tctggagctg gcttcttcgg 420
 ggagttcttc cttaatatgt catccatatg gctccagagg aaaaattat tatittgtta 480
 tggatgauga gtattacgtt gtccagatat actgcagtggt ctccatctct tgatgtgtga 540
 ttgggttaggt tccaccatgt tggcgacgat gacatgattt cagtaactgt gtctggctga 600
 aaagtgtttt ttgtgtaatz gatattgttg tttctggatc tcatcctctg tgggtggaca 660
 gctttctcca ccttgctgga agtgacctgc tgtccagaag attgatggct gaggagtata 720
 ccatcgtgca tgcattcttc atttcttga tttcttctc cctggatgga caggggggag 780
 ggcaagagca acgtgggcac ttctggagac cacaacgaat cctctgtgaa gacgcttggg 840
 agcaagaggt gcaagtggg ctgcacactg ttcctctgtt gacgggggag cggcaagagc 900
 aacgtggctg cttggggaga ctacgatgac agcgcttca tggatccag gtaccacgtc 960
 catggagagc atctggacaa gctccacaga gctgcctggt ggggtaaaat ccccaagaaag 1020
 gatctcatcg tcatgctcag ggacacggat gtgaanaaga gggacaagca aaagaggaat 1080
 gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcgt gctggacaga 1140
 cgtatgtcaa ttaattgtct tgacaacaaa aagaggacag ctctgacaaa ggcggtacaa 1200
 tggcaggaag atgaatgtgc gttatgtttg ctggacatg gcaetgatcc aaatattcca 1260
 gatgagtagt gaaataccac tctacactat gctgtctaca atgaagatca attaatggcc 1320
 aaagcactgc tcttatcagg tctgatata caatcaaaaa acaagcatgg cctcacacca 1380
 ctgctacttg gtatcacatg gcaaaaacag caagtggtag aattttttaa caagaaaaaa 1440
 ggaattttta atgctctgga tagatatgga agaactgctc tcatacttgc tgtatgttgt 1500
 ggatcagcaa gtatagtcag cctctactt gagcaaaatg ttgatgtatc ttctcaagat 1560
 ctggaaagac ggcacagag tatgtgtgtt ctgtctatca tcatgtatct tggcagttac 1620
 tttctgacta caaagaaaaa cagatgttaa aaatctcttc tgaanaacag aatccagaaac 1680
 aagacttasa gctgacatca gaggaaagat cacaagggct taaggaagat gaaaacagcc 1740
 agccagagct agaagattta tggctattga agaagaatga agaacacgga agtactcatg 1800
 tgggatttccc agaaaaactg actaaacggt cgcctgctgg caatgggtat ga 1852

<210> 314
 <211> 879
 <212> DNA
 <213> Homo sapiens

<400> 314
 atgcatactt catttctctg atttcttctc ccttggatgg acagggggag cggcaagagc 60
 aacgtgggca ctctctggga ccacaacgac tctctgttga agacgcttgg gagcaagagg 120
 tgaagtggtt gctgcactg cttccctctg tgcaggggga ggcggcaagag caacgtggctc 180
 gcttggggag actacatga cagcgcttcc atggaaccca ggtaccacgt ccatggagaa 240
 gatctggaca agctccacag agctgcctgg tggggttaag tccccagaaa ggaatctcatc 300
 gtcattgtca gggacacgga tgtgaacaaq agggacacag aaaaaggagac tgcctctacat 360
 ctggcctctg caaatgggaa ttcaagaagta gtaaaactcg tgcctggacag acgatgtcaa 420
 cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggcctgaca atgpcaggaa 480
 gatgaatgtg cgttaactgt gctggacact ggcactgata caaatattac agatgagtat 540
 ggaataacca cctctaccta tgtgtcttnc aatgaagata aattaatggc caaagcactg 600
 ctcttatcag gtgtgtgat cgaatcaaaa acaagcatg gctccacacc actgctactt 660
 ggtatcacatg agcaaaaaca gcaagtgtgt aaattcttaa tcaagaaaaa agcgaattta 720
 aatgcgctgg atagatatgg aagaactgct ctctacttgg ctgtatgttg tggatcagca 780

agtatagtaa gccctctact tgagcaaat gttgatgtat ctctcaaga tctggaaga 840
 cggccagaga gtagctgttt tctagtcata atctgttaa 879

<210> 315

<211> 292

<212> PRT

<213> Homo sapiens

<400> 315

Met	His	Leu	Ser	Phe	Pro	Ala	Phe	Leu	Pro	Pro	Trp	Met	Asp	Arg	Gly	5	10	15
Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp	His	Asn	Asp	Ser	Ser	20	25	30
Val	Lys	Thr	Leu	Gly	Ser	Lys	Arg	Cys	Lys	Trp	Cys	Cys	His	Cys	Phe	35	40	45
Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val	Val	Ala	Trp	Gly	Asp	50	55	60
Tyr	Asp	Asp	Ser	Ala	Phe	Met	Asp	Pro	Arg	Tyr	His	Val	His	Gly	Glu	65	70	75
Asp	Leu	Asp	Lys	Leu	His	Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	80	85	90
Lys	Asp	Leu	Ile	Val	Met	Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Arg	Asp	100	105	110
Lys	Gln	Lys	Arg	Thr	Ala	Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	115	120	125
Glu	Val	Val	Lys	Leu	Val	Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	130	135	140
Asp	Asn	Lys	Lys	Arg	Thr	Ala	Leu	Thr	Lys	Ala	Val	Gln	Cys	Gln	Glu	145	150	155
Asp	Glu	Cys	Ala	Leu	Met	Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	160	165	170
Pro	Asp	Glu	Tyr	Gly	Asn	Thr	Thr	Leu	His	Tyr	Ala	Val	Tyr	Asn	Glu	180	185	190
Asp	Lys	Leu	Met	Ala	Lys	Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Gln	195	200	205
Ser	Lys	Asn	Lys	His	Gly	Leu	Thr	Pro	Leu	Leu	Leu	Gly	Ile	His	Glu	210	215	220
Gln	Lys	Gln	Gln	Val	Val	Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	225	230	235
Asn	Ala	Leu	Asp	Arg	Tyr	Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	240	245	250
Cys	Gly	Ser	Ala	Ser	Ile	Val	Ser	Pro	Leu	Leu	Glu	Gln	Asn	Val	Asp	255	260	265

260 265 270

Val Ser Ser Gln Asp Leu Gln Arg Arg Pro Glu Ser Met Leu Phe Leu
275 280 285

Val Ile Ile Met
290

<210> 316
<211> 584
<212> DNA
<213> Homo sapiens

<400> 316
agttggggca aattcccttc cccctacagc ttgaaggggg cataaccant agcctggggg 60
ttttttgtgg toctttggag atttccttgc ttattttctt ctgggtgggg gtgattagag 120
gaggtttatc actaatagga aggggagcta tagggagggt aggtatggg ggtasagotga 180
gaggtcctcc tgtgggatgt aattttcaag ctttgcctag tgtattctcc ttcaatgaaa 240
agaaggtttg gacataaggt atttcactcc atttgccttc cctcttacag aaaggtcaa 300
gtgtcaggat agtatgtta tctgtacttc cctcaggttg ccatitttcc ccacacagga 360
gagaattgtt gggccaagcc atagtgcaga aaaaaaatg agccacctct ttttcaagg 420
tttgtgggtc aattttgtcc ctttgcctta ggtatgattt caaaggtgag cctgttgatg 480
cctgagtggt tcccatctga aagacaanac tgcctatggt tttgtttgt tttgtttctc 540
ccccggccca agaactatca aactcctgag ccaacaacta aaaa 584

<210> 317
<211> 829
<212> DNA
<213> Homo sapiens

<400> 317
attagcttcc gctttctgac aactagaga tccctccctt cctcaggggt atggccctcc 60
acttcatttt tggtaacata catctttata ggacaggggt aaaaaccaca tactaacagg 120
agaatgctta ggaactaac aggtttttga gaagtgtttg gtaagggcca ctcaatccaa 180
ttttctttgg tctccttctg ggtctaggag gacaggcaag ggtgcagatt ttcaagaatg 240
caccagtaag ggcactaaa tccgaacttc ctgtttcttc cttgtggtct gggaggaaaa 300
ctagtgttcc tgttgcgttg tcagtgagca caactattcc gatcagcagg gtccagggac 360
cactgcaggt tcttgggcag ggggagaaac aaaaacaaac aaacacatgg gcagttttgt 420
ctttcagatg ggaacactc aggcctcaac aggtctacct ttgaaatgca tccaaagcca 480
atgggacaaa tttagaccac aaaccttga aasagaggtg gctcattttt tttgcactat 540
ggcttggccc caacatttc tctctgatgg ggaanaatgg ccacctgagg gaagtacaga 600
ttacaatact atcctgcagc ttgacctttt ctgtasagag gaaggcaaat ggaagtgaat 660
accttatgtc caagctttct tttcattgaa ggaagaatac ctatgcacag cttgaaatti 720
acatcccaac ggaagacctc tcaagttacc cccatctcct agctcccta tagctccctt 780
tctatttagt gataagcttc ctcaatcac ccccccacag aagaataa 829

<210> 318
<211> 30
<212> PRT
<213> Homo sapien

<400> 318
Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Glu Gly Phe
1 5 10 15

Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile
20 25 30

<210> 319
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 319

gycctctgcc aatgggaact cagaagtagt aasactcctg c 41

<210> 320
 <211> 41
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 320

gcaggagagt tactacttct gagttcccat tggcagagga c 41

<210> 321
 <211> 60
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 321

ggggaaattcc agctgggtgcc ggggggcaga cctatggtag ttgaggttga 50
 ttccatgcag 50

<210> 322
 <211> 42
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 322

ccgaattct tatttatctc tggttcttga gacattttct gg 42

<210> 323
 <211> 1590
 <212> DNA
 <213> Homo sapiens

100

<400> 323

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atgcctacac atcaccatca caccggcggg ccgataaact tccagctgtc ccaggggtgg 60
cagggtattc cacttccgat cgggcaggcg atggcgatcg cgggcacgat caagcttccc 120
accgttccata tggggcctac cggcttccctc ggttgggttg ttgtcgccaa caacggcaac 180
ggcgacggag tccaacgggt ggtcggggag gctccggcgg caagtctcgg catctccacc 240
ggcgacgtga tcaccgggtt cggcggcgct ccgatcaact cggccacccc gatggcgagg 300
gggttaacg ggcctatcc cggtagctc atctcggtag cctggcaaac caagtggggc 360
ggcagcgcta cagggaacgt gacattggcc gagggacccc cggccgaatt cccgtggtg 420
ccgcggggca gccctatggt ggttgaggtt gattccatgc cggctgcttc ttctgtgaag 480
aagccatttg gtctcaggag caagatgggc aagtgtgtgt gccgttgett cccctgctgc 540
agggagagcg gcaagagcaa cctgggcact tctggagccc acgacgactc tgcctatgaag 600
acactcagga gcaagatggg caagtgtgtc cggcactgct tcccctgctg caggggggagt 660
ggcagagaga acctgggggc ttctggagac cagcagcact ctgctatgaa gacactcagg 720
aacagatgg gcaagtgttg ctgpcactgc ttcccctgct gcagggggag cggcaagagc 780
aaggtggggc cttggggaga ctacgatgac agygcttcc tggagccccc gtaccacgtc 840
cgtggagaa atctggacaa gctccacaga gctgctggtt ggggtaaagt ccccgaaaag 900
gatctcatcg tcatgctcag ggcactgac gtgacaaaga aggacaagca aaagaggact 960
gctctacatc tggcctctgc caatgggaat tcagaagtag taaaactcct gctggacaga 1020
cgatgtcaac ttaattgtct tgcacacaaa aagaggccag ctctgataaa ggcgtacaa 1080
tgcagggaag atgaatgtgc gttaatgttg ctggaacatg gcactgaccc aaatatccca 1140
gatgagtatg gaataccac tctgcactac gctatctata atgagataa attaatggcc 1200
aaagcactgc tcttatatgg tctgatata gaatcaaaaa acagacatgg cctcacacca 1260
ctgttacttg gtgtacatga gcaaaaacag caagtctgga aatttttaac caagaaaaaa 1320
ggaatttaa atgcactgga tagatatgga aggactgctc tcaactctgc tgtatgttgt 1380
ggatcagcaa gtatagtca cctctactt gacaaaata ttgatgtatc ttctcaagat 1440
ctatctggac agcaggccag agagtatgtt gttcttagto atcatcatgt aatttgccag 1500
tactttctg actacaaaga aaaaagatg ctaaaaatct ctctgaaa caqaactcca 1560
gaatatgtct caagaaccag aaataaataa

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<210> 324

<211> 529

<212> PRK

<213> Homo sapiens

<400> 324

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Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
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Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20              25              30

Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
      35              40              45

Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
      50              55              60

Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
      65              70              75              80

Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
      85              90              95

Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
      100              105              110

```

101

Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
 115 120 125
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Pro Leu Val Pro Arg Gly Ser
 130 135 140
 Pro Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys
 145 150 155 160
 Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys
 165 170 175
 Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly
 180 185 190
 Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys
 195 200 205
 Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn
 210 215 220
 Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg
 225 230 235 240
 Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly
 245 250 255
 Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala
 260 265 270
 Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu
 275 280 285
 His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val
 290 295 300
 Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr
 305 310 315 320
 Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu
 325 330 335
 Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg
 340 345 350
 Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu
 355 360 365
 Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly
 370 375 380
 Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala
 385 390 395 400
 Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His
 405 410 415
 Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Glu Gln Val

102

420 425 430

Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg
435 440 445

Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser
450 455 460

Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp
465 470 475 480

Leu Ser Gly Gln Thr Ala Arg Gln Tyr Ala Val Ser Ser His His His
485 490 495

Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys
500 505 510

Ile Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn
515 520 525

Lys

<210> 325
<211> 1155
<212> DNA
<213> Homo sapiens

<400> 325

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agcaacatgg gcacttttgg agaccacgac gactccttta tgaagatgct caggagcaag 180
atgggcaagt gttgcggcca ctgcttcccc tctgtcaggg ggaagggpac gagcaacgtg 240
ggcacttctg gagacpatga aaactccttt atgaagatgc tcaaggagaa gatgggcaag 300
tggtgctgtc actgcttccc ctgctgcagg gggaggggga agagcaacgt gggcgtttgg 360
ggagactaag accacagcgc cttaatggag ccgaggtacc acatccttgc agaagatctg 420
gcaagctctc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgtcatg 480
ctcagggaca ctgcacatga caagggggac aaggaaaaga ggaactgctc acatttggcc 540
tctgccaatg gaatttcaga agtagtacaa ctccgtctgg acagacgatg tcaacttaat 600
gtccttgaca caaaaaaag gacagctctg ataaaggcca tcaaatgcca ggaagatgaa 660
tggtgtttta ttttgttga acatggcgct gatcgaataa ttccagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaagc actgctctta 780
tatgtgtctg atattgactc aaaaaacaag gttggcctca caccactttt gtttggcgta 840
catgaacaaa aacagcaagt gttgaaattt ttaatcaaga aaaaagctaa tttaaatgta 900
cttgetagat atgggaaggac tgccttcata cttgctgtat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggaccagac 1020
gacagagagt atgtgtttc tagtcatcat catgtaattt gtgaattact ttctgaatat 1080
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accagaata aataa 1155

<210> 326
<211> 384
<212> PRF
<213> Homo sapiens

<400> 326

Met Val Ala Gln Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
5 10 15

103

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
 20 25 30
 Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
 65 70 75 80
 Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Glu Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Ile Glu Cys Gln Glu Asp Gln Cys Val Leu Met
 210 215 220
 Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Val Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320

Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu
325 330 335

Ser Gly Glu Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
340 345 350

Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
355 360 365

Ser Ser Glu Asn Ser Asp Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
370 375 380

<210> 327

<211> 634

<212> DNA

<213> Homo sapiens

<400> 327

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cagacgttgt caacttaata tctttgacaa caaaaagagg acagctctga ccaaggccgt 120
acaatgccag gaagatgaat gtgcgttaat gtgcctgga catggcaatg atccgaatat 180
tccagatgag tatggaaata ccgctctaca ctatgctatc tacaatgaag ataaattaat 240
ggccaaagca ctgctcttat acggtgtctga tatcgcaatc aaaaacagc atggcctcac 300
accactgcta ctgggtgtac atgagcaaaa acagcaagt gtgaattttt taatcaagaa 360
aaaagcaaat ttaaatgcac tggatagata tggagaact gctctcctac ttgtgtatg 420
ttgtggtatg gcaagtatag tcaagcctct acthagacaa sacattgatg tatcttctca 480
agttctatct ggacagaggg ccagagagta tgggttttct agtcgtcata atgtaatttg 540
ccagttactt tctgactaca aagaaaaaca gatactaaaa gtctcttctg aaaaacagcaa 600
tccaggaaat gtctcaagaa ccagaataaa ataa 634

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<210> 328

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 328

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atggttggtt aggttgattc catgcccgct gctcttctct tgaagaagcc atttggtctc 60
aggagcaaga tgggcaagt gtgctgcctg tcttccctt gctgcaggga gagggcaag 120
agcaacgttg gaacttcttg agaccacgac gactctgcta tgaagacact caggagcaag 180
atgggcaagt ggtgccgcca ctgcttcccc tgcctgcagg ggagtggcaa gagcaangtg 240
ggcgcttctg gagaccacga cgtctctgct atgaagacac tccggaccaa gatgggcaag 300
tgggtgctgc actgcttccc ctgctgcagg ggaagcagca agagcaaggt gggcgcttgg 360
ggagactaag atgcagtgcc ctctctggag ccaggttacc acgtccgttg agaagatctg 420
gcaagctccc acagagctgc ctggtgggtt aaagtcccca gaaaggatct catgctcatg 480
ctcagggaca ctgacgtgaa caagcaggac aagcaaaaga ggactgctct acatctggcc 540
tctgccaatg ggaattcaga agtagtaaaa ctctgctggt acagacgatg tcaacttaat 600
gtccttgaca acaaaaagag gacagctctg ataaagggcg tacaatgcca ggaagatgaa 660
tgtgcgttaa tgttgcctga acatggcaat gatcaasta ttccagatga gtatggaaat 720
accactctgc actacgctat ctataatgaa gatasaattaa tggccaaagc actgctctta 780
tatgggtgct atatcgatc aaaaaacaa catggcctca caccactgtt acttgggtga 840
catgagcaca aacagcaagt cgtgaatttt ttaattaaga aaaaagcgaa tttaaatgca 900
ctggatagat atggaaggac tgcctctcata ctgtgttat gttgtggatc agcaagtata 960
gtcagccttc tacttgagca aaatattgat gtatcttctc aagatctatc tggacagacg 1020
ccagagaggt atgtgtttc tagtcataat catgtaattt gccagttact tctgactaac 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140
accagaataa ataaa 1155

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<210> 329

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 328

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atggtggctg aggtttgttc aatgcccgtt gectctgctg tgaagaagcc atttgatctc 60
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agcaacatgg gcacttcttg agaccacgac gactccttta tgaagacgct caggagcaag 180
atgggcaagt gttgccacca ctgcttcccc tgotgcaggg ggagcggcac gagcaatgtg 240
ggcacttctg gagaccatga caactccttt atgaagacac tcaggagcaa gatgggcaag 300
tggctctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcacttgg 360
ggagactacg accacagcgc ctccatggag ccgaggtacc acgtccgtcg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaggatct catcgtcatg 480
ctcagggaca ctgacatgaa caagagggac aagcaaaaga ggactgctct acatttggcc 540
tcggccaagt gaattccga agtagtaca ctctgcttg acagacgatg tcaccttaac 600
gtccttgaca acaaaaaaag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgcgtga acatggcgct gatgaaata ttcaagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaggc actgctctta 780
tatggtgctg atattgaatc aaaaaacaa tgtggcctca caccactttt gcttggcgta 840
catgaacaaa aacagcaagt ggtgaatttt ttaactaaga aaaaagctaa tttaaatgta 900
cttgatagat atggaagaac tgcctcata ctgctgttat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacy 1020
gcacagagat atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
aaagaaaaac agatgttaaa aatctcttct gaasacagca atccagaaaa tgtctcaaga 1140
accagaaata aataa                                     1155

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<210> 330

<211> 1155

<212> DNA

<213> Homo sapiens

<400> 330

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aggagcaaga tgggcaagtg gtgccaccac cgttccccct gctgcagggg gagcggaag 120
agcaacatgg gcacttcttg agaccacgac gactccttta tgaagatgct caggagcaag 180
atgggcaagt gttgccacca ctgcttcccc tgotgcaggg ggagcggcac gagcaacgtg 240
ggcacttctg gagaccatga caactccttt atgaagatgc tcaggagcaa gatgggcaag 300
tggctctgtc actgcttccc ctgctgcagg gggagcggca agagcaacgt gggcacttgg 360
ggagactacg accacagcgc ctccatggag ccgaggtacc acatccgtcg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaggatct catcgtcatg 480
ctcagggaca ctgacatgaa caagagggac aagcaaaaga ggactgctct acatttggcc 540
tcggccaagt gaattccga agtagtaca ctctgcttg acagacgatg tcaccttaac 600
gtccttgaca acaaaaaaag gacagctctg ataaaggcca tacaatgcca ggaagatgaa 660
tgtgtgttaa tgttgcgtga acatggcgct gatgaaata ttcaagatga gtatggaaat 720
accgctctac actatgctat ctacaatgaa gataaattaa tggccaaggc actgctctta 780
tatggtgctg atattgaatc aaaaaacaa tgtggcctca caccactttt gcttggcgta 840
catgaacaaa aacagcaagt ggtgaatttt ttaactaaga aaaaagctaa tttaaatgta 900
cttgatagat atggaagaac tgcctcata ctgctgttat gttgtggatc agcaagtata 960
gtcaatcttc tacttgagca aaatgttgat gtatcttctc aagatctatc tggacagacy 1020
gcacagagat atgctgtttc tagtcatcat catgtaattt gtgaattact ttctgactat 1080
aaagaaaaac agatgttaaa aatctcttct gaasacagca atccagaaaa tgtctcaaga 1140
accagaaata aataa                                     1155

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<210> 331

<211> 210

<212> PRT

<213> Homo sapiens

106

<400> 331

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Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys
      5              10              15

Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Ile Leu Asp Asn Lys Lys
      20              25              30

Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala
      35              40              45

Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr
      50              55              60

Gly Asn Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met
      65              70              75              80

Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys
      85              90              95

His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln
      100             105             110

Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp
      115             120             125

Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala
      130             135             140

Ser Ile Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln
      145             150             155             160

Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser Arg His
      165             170             175

Asn Val Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Ile Leu
      180             185             190

Lys Val Ser Ser Glu Asn Ser Asn Pro Gly Asn Val Ser Arg Thr Arg
      195             200             205

Asn Lys
      210

```

<210> 332

<211> 384

<212> PRT

<213> Homo sapiens

<400> 333

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Met Val Ala Glu Val Cys Ser Met Pro Thr Ala Ser Thr Val Lys Lys
      5              10              15

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
      20              25              30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
      35              40              45

```


107

His Asp Asp Ser Phe Met Lys Met Leu Arg Ser Lys Met Gly Lys Cys
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
 65 70 75 80
 Gly Thr Ser Gly Asp His Glu Asn Ser Phe Met Lys Met Leu Arg Ser
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Gly Lys Ser Asn Val Gly Ala Trp Gly Asp Tyr Asp His Ser Ala Phe
 115 120 125
 Met Glu Pro Arg Tyr His Ile Arg Arg Glu Asp Leu Asp Lys Leu His
 130 135 140
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
 145 150 155 160
 Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Glu Lys Arg Thr Ala
 165 170 175
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Glu Leu Leu
 180 185 190
 Leu Asp Arg Arg Cys Glu Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
 195 200 205
 Ala Leu Ile Lys Ala Ile Glu Cys Glu Glu Asp Glu Cys Val Leu Met
 210 215 220
 Leu Leu Glu His Gly Ala Asp Arg Asn Ile Pro Asp Glu Tyr Gly Asn
 225 230 235 240
 Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Cys Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Glu Lys Glu Glu Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Val Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Asn Leu Leu Leu Glu Glu Asn Val Asp Val Ser Ser Glu Asp Leu
 325 330 335
 Ser Gly Glu Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350

108

Ile Cys Glu Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
355 360 365

Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
370 375 380

<210> 333

<211> 384

<212> PRT

<213> Homo sapiens

<400> 333

Met Val Ala Glu Val Cys Ser Met Pro Ala Ala Ser Ala Val Lys Lys
5 10 15

Pro Phe Asp Leu Arg Ser Lys Met Gly Lys Trp Cys His His Arg Phe
20 25 30

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Met Gly Thr Ser Gly Asp
35 40 45

His Asp Asp Ser Phe Met Lys Thr Leu Arg Ser Lys Met Gly Lys Cys
50 55 60

Cys His His Cys Phe Pro Cys Cys Arg Gly Ser Gly Thr Ser Asn Val
65 70 75 80

Gly Thr Ser Gly Asp His Asp Asn Ser Phe Met Lys Thr Leu Arg Ser
85 90 95

Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
100 105 110

Gly Lys Ser Asn Val Gly Thr Trp Gly Asp Tyr Asp Asp Ser Ala Phe
115 120 125

Met Glu Pro Arg Tyr His Val Arg Arg Glu Asp Leu Asp Lys Leu His
130 135 140

Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met
145 150 155 160

Leu Arg Asp Thr Asp Met Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala
165 170 175

Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Gln Leu Leu
180 185 190

Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr
195 200 205

Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Val Leu Met
210 215 220

Leu Leu Glu His Gly Ala Asp Gly Asn Ile Gln Asp Glu Tyr Gly Asn
225 230 235 240

109

Thr Ala Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys
 245 250 255
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys Cys Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Asn Leu Leu Leu Glu Gln Asn Val Asp Val Ser Ser Glu Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Gln Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Gln Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380

<210> 334

<211> 384

<212> PRT

<213> Homo sapiens

<400> 334

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys
 5 10 15
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe
 20 25 30
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp
 35 40 45
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp
 50 55 60
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val
 65 70 75 80
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn
 85 90 95
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser
 100 105 110
 Ser Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe
 115 120 125

110

Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
130						135					140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145					150					155					160
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Gln	Asp	Lys	Gln	Lys	Arg	Thr	Ala
				165					170					175	
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Gln	Val	Val	Lys	Leu	Leu
			180					185						190	
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195					200						205			
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
	210					215						220			
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Gln	Tyr	Gly	Asn
225					230					235					240
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
				245					250					255	
Ala	Leu	Leu	Leu	Tyr	Gly	Ala	Asp	Ile	Gln	Ser	Lys	Asn	Lys	His	Gly
			260					265						270	
Leu	Thr	Pro	Leu	Leu	Leu	Gly	Val	His	Glu	Gln	Lys	Gln	Gln	Val	Val
		275					280						285		
Lys	Phe	Leu	Ile	Lys	Lys	Lys	Ala	Asn	Leu	Asn	Ala	Leu	Asp	Arg	Tyr
	290					295						300			
Gly	Arg	Thr	Ala	Leu	Ile	Leu	Ala	Val	Cys	Cys	Gly	Ser	Ala	Ser	Ile
305					310					315					320
Val	Ser	Leu	Leu	Leu	Glu	Gln	Asn	Ile	Asp	Val	Ser	Ser	Gln	Asp	Leu
				325					330					335	
Ser	Gly	Gln	Thr	Ala	Arg	Gln	Tyr	Ala	Val	Ser	Ser	His	His	His	Val
			340					345						350	
Ile	Cys	Gln	Leu	Leu	Ser	Asp	Tyr	Lys	Glu	Lys	Glu	Met	Leu	Lys	Ile
		355					360					365			
Ser	Ser	Glu	Asn	Ser	Asn	Pro	Glu	Asn	Val	Ser	Arg	Thr	Arg	Asn	Lys
	370					375						380			